

Exploded Lock Views

AND SERVICE INFORMATION
ON KEY-IN-THE-KNOB LOCKS

VOL. 2

PUBLISHED BY THE LOCKSMITH LEDGER

VOLUME 2

EXPLODED LOCK VIEWS

and SERVICE INFORMATION

on KEY-IN-THE-KNOB LOCKS

including

PADLOCKS and PANIC EXIT BOLTS

This supplemental edition of Exploded Lock Views is being issued to provide under one cover all of the new locksets introduced since the time of release of the original EXPLODED LOCK VIEWS manual. When used together, these two manuals provide service information and technical data on the majority of the popular locksets of today.

Since manufacturers are constantly revising and improving their locks, the reader may find occasional variations between the illustrations and the actual locks he may be working upon. These differences, however, are minor and will not detract from the value of this edition because the basic principles are unchanged.

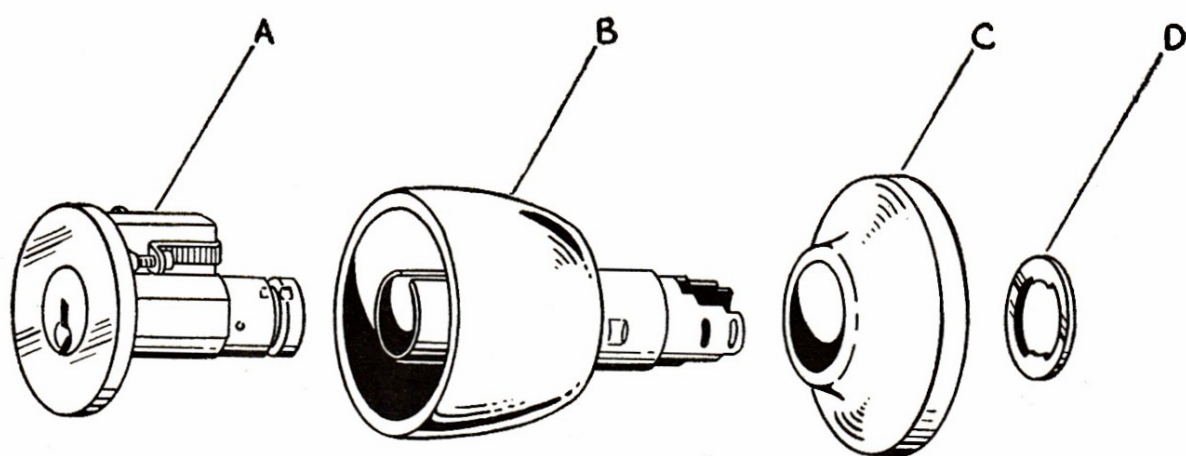
Published By
Nickerson & Collins Publishing Co.
Locksmith Ledger Div.
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Des Plaines, Ill. 60018
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LOCKSMITH LEDGER

Little Falls, N. J.



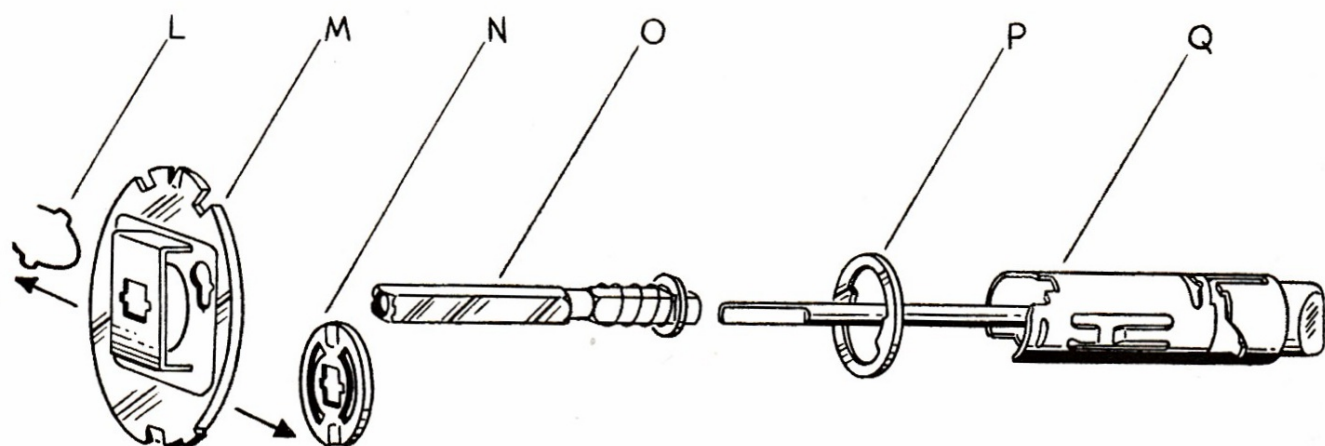


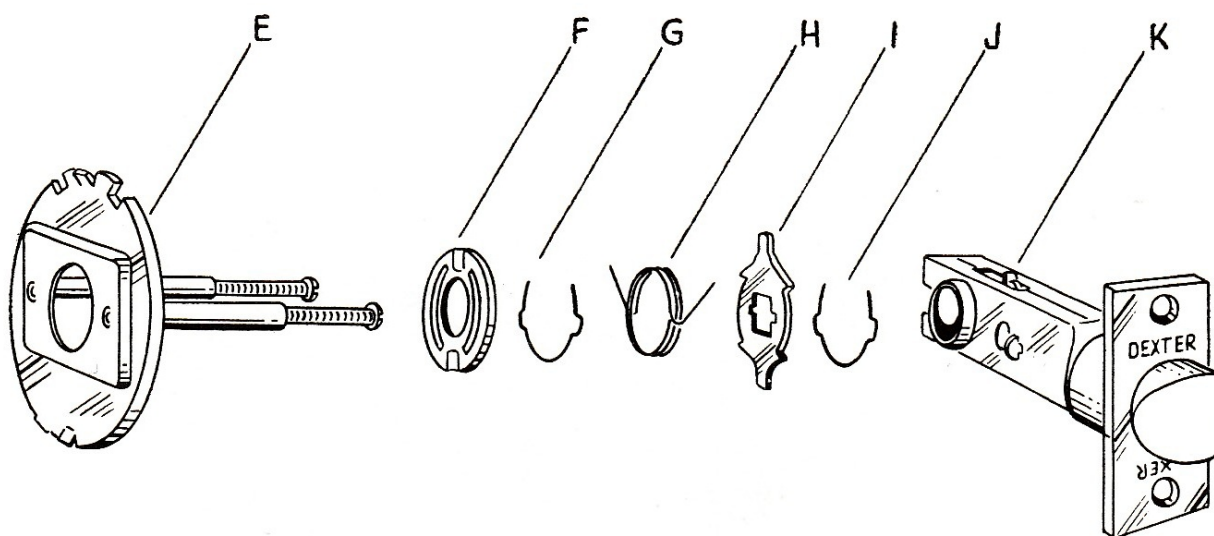
EXPLODED VIEW

DEXTER No. 3231

Manufactured by Dexter Lock Division,
Dexter Industries, Inc., Grand Rapids, Michigan

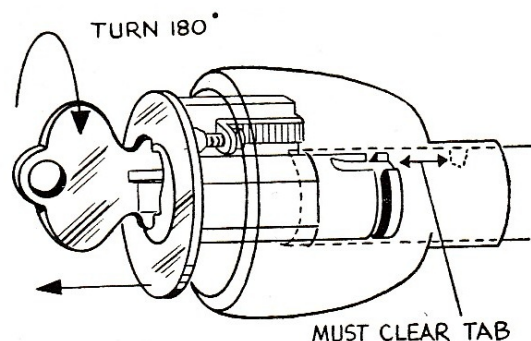
- | | |
|----------------------------|---------------------------|
| A. Cylinder | J. Retainer Clip |
| B. Outside Knob | K. Latchbolt |
| C. Outside Rose | L. Retainer Clip |
| D. Knob Shank Stop Washer | M. Inside Mounting Plate |
| E. Outside Mounting Plate | N. Spindle Drive Washer |
| F. Knob Retainer Washer | O. Spindle |
| G. Retainer Clip | P. Knob Shank Stop Washer |
| H. Knob Return Spring | Q. Push Button Assembly |
| I. Knob Travel Stop Washer | R. Inside Rose |
| | S. Inside Knob |





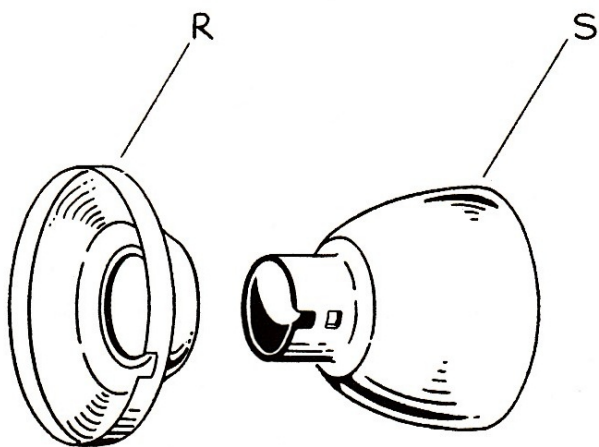
SERVICE NOTES

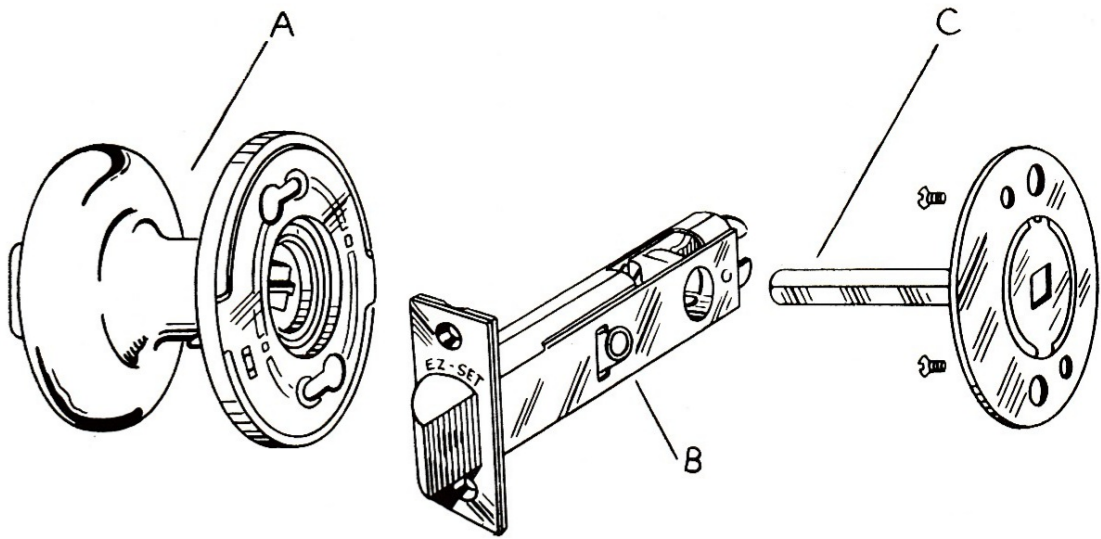
To remove the lockset from the door, insert a screwdriver or similar tool into the knob release hole of the inside knob, depress the knob retainer and pull knob off. Then insert a screwdriver between the notch in the inside rose and the tab on the inside mounting plate; then, pry off inside rose. The inside mounting plate then can be released from the tie screws, enabling the entire outside knob assembly to be removed from the door. Note that one of the tie screws goes through the latch, while the other goes through an indentation in the end of the latch.



To remove the cylinder assembly from the outside knob, insert the key and rotate it 180°, (one-half turn). This will bring a groove in the cylinder cam in line with a retaining tab in the knob spindle, enabling the cylinder to be pulled out.

To install the inside rose, position the rose to the mounting plate tab; then, snap rose in place. When installing the inside knob on the sleeve of the push button assembly, be sure the guide in the knob shank engages in the slot of the sleeve. The knob then can be pushed in until it snaps in place.



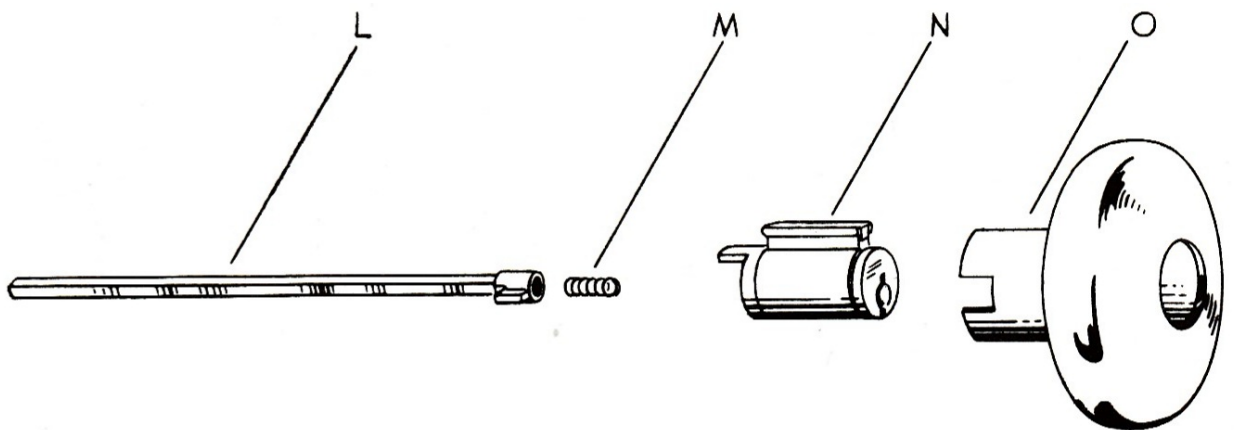


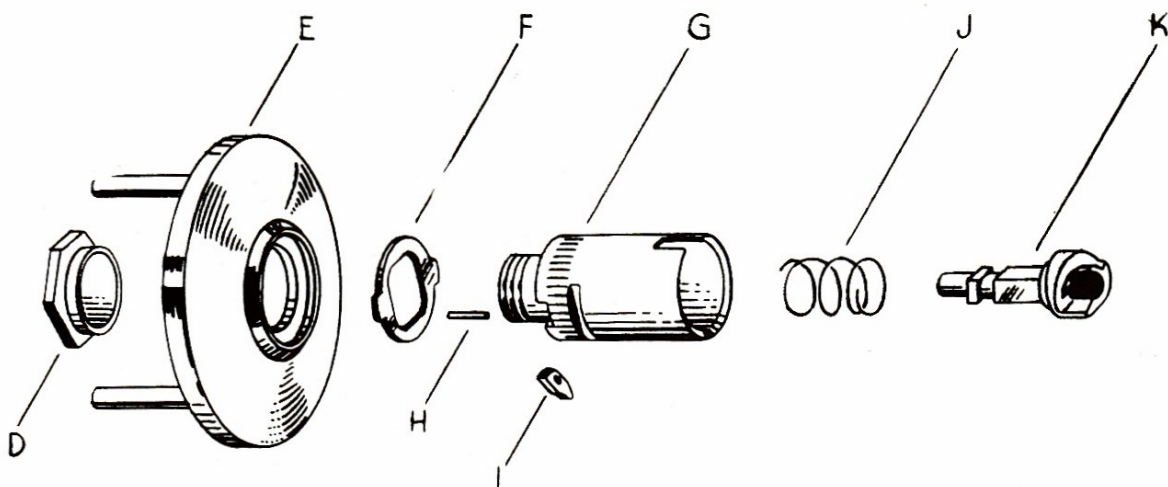
EXPLODED VIEW

E-Z-SET 500

**Manufactured by National Hardware Corp.
Ozone Park, N. Y.**

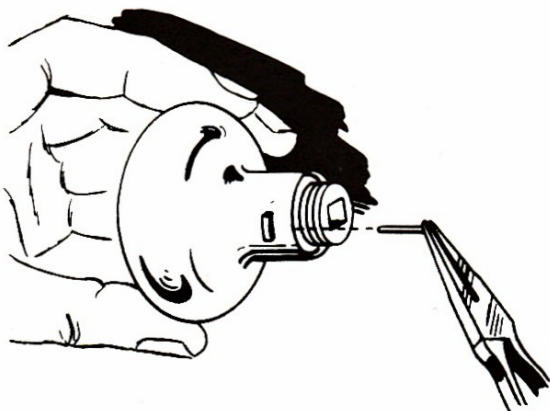
- | | |
|----------------------------------|---------------------------|
| A. Inside Knob and Rose Assembly | H. Knob Retaining Lug Pin |
| B. Latch Bolt | I. Knob Retaining Lug |
| C. Turn Button Stem Assembly | J. Spring |
| D. Retaining Nut | K. Inside Spindle |
| E. Outside Rose | L. Cylinder Stem |
| F. Locking Washer | M. Spring |
| G. Cylinder Housing | N. Cylinder |
| | O. Outside Knob |





SERVICE NOTES

To remove the cylinder housing and cylinder from the outside knob (after the outside rose has been removed), pull out the knob retaining lug pin from the cylinder housing with a pair of needle nosed pliers. The knob retaining lug then can be removed by pressing down at one end to raise the opposite end, and using tweezers or pliers to grasp the upraised end to lift it out of the slot.



The retaining nut "D" is removed with a special socket wrench available from the manufacturer.

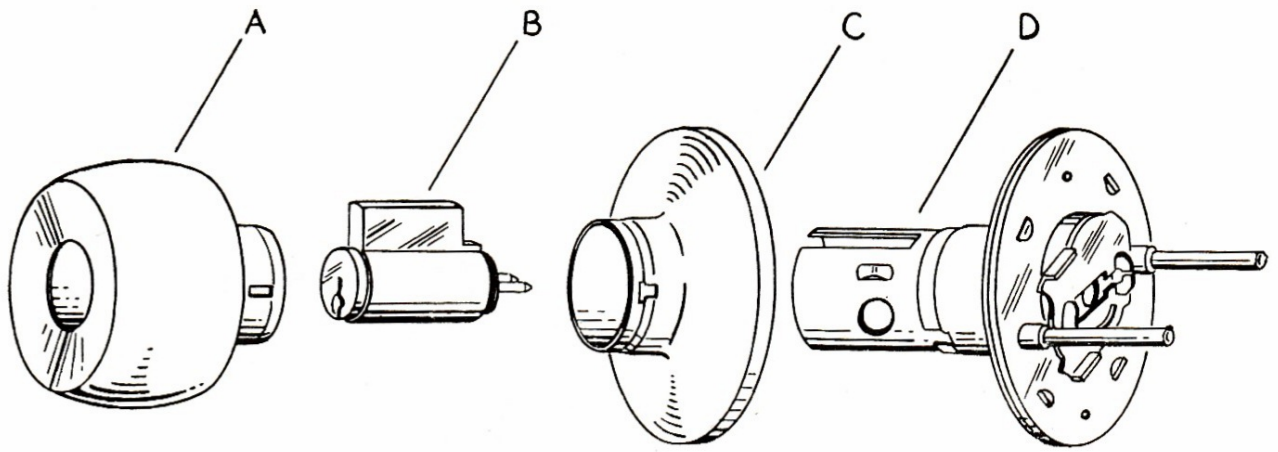
The numbers stamped on the bow of the original key indicate the depths of the cuts, reading from bow to tip.



EXPLODED LOCK VIEW

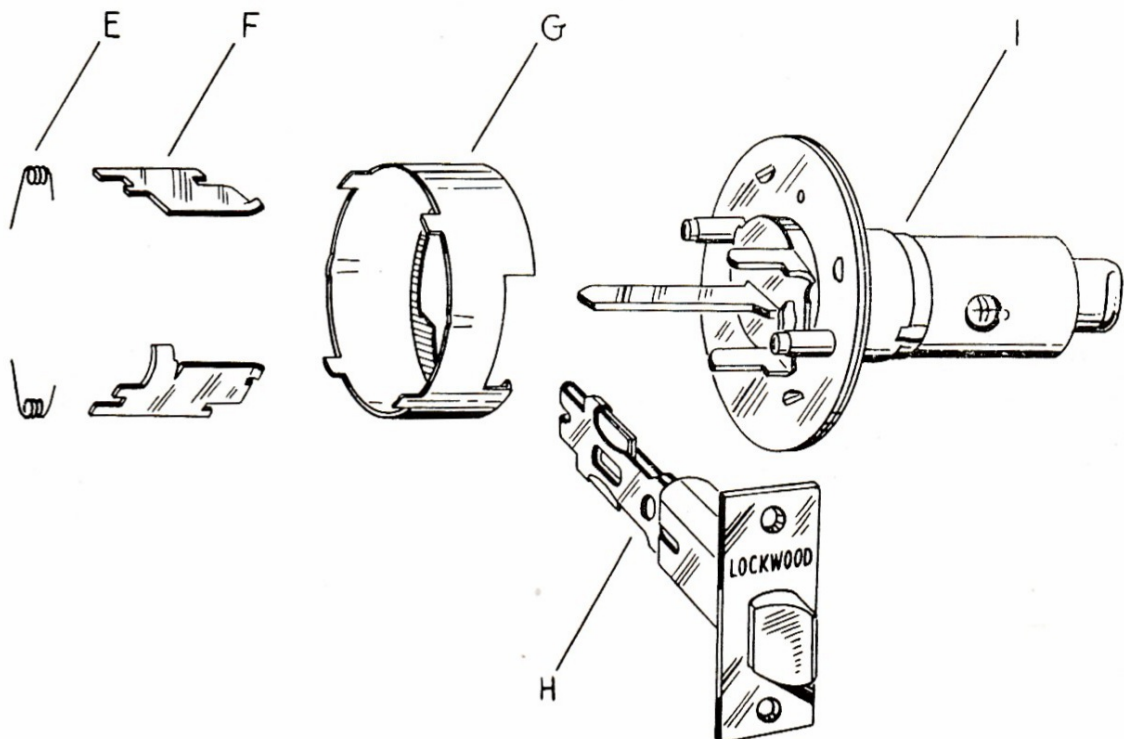
LOCKWOOD RS-130

Manufactured by Lockwood Mfg. Co.
Fitchburg, Massachusetts

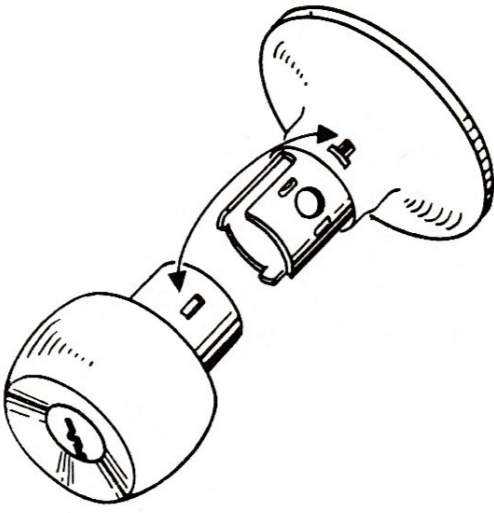


- A. Outside Knob
- B. Cylinder
- C. Outside Rose
- D. Outside Spindle Assembly
- E. Springs
- F. Push Plate

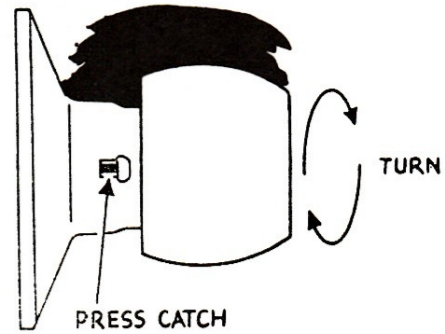
- G. Housing Cover
- H. Latch Bolt Assembly
- I. Inside Spindle and Push Button Assembly
- J. Inside Rose
- K. Inside Knob



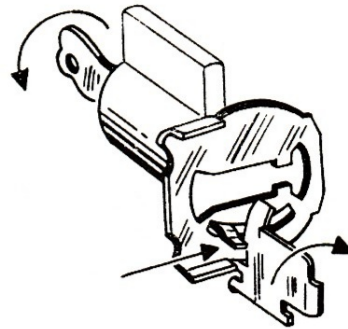
SERVICE NOTES



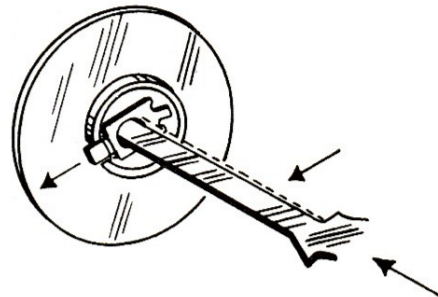
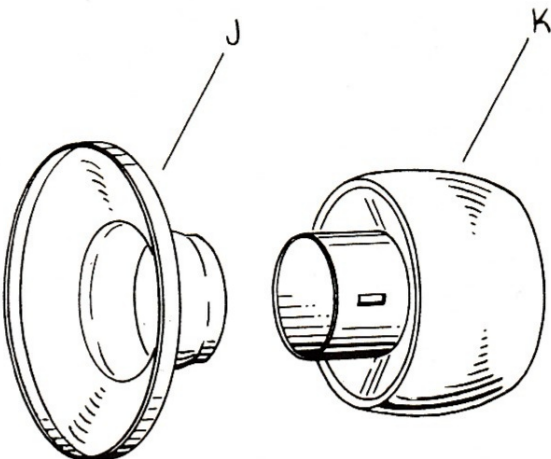
To replace the outside knob on the outside spindle, insert the cylinder in the knob, lining up the retaining groove in the knob with the retainer exposed through the hole in the outside rose, which is mounted on the spindle. Slide the knob on the spindle; then insert the key and turn the cylinder until its twin tails fall into place in the spindle, which will enable the knob retaining groove to slide over the retainer.



To remove inside knob, turn it as far as it will go and depress the catch exposed in the hole of the inside rose.



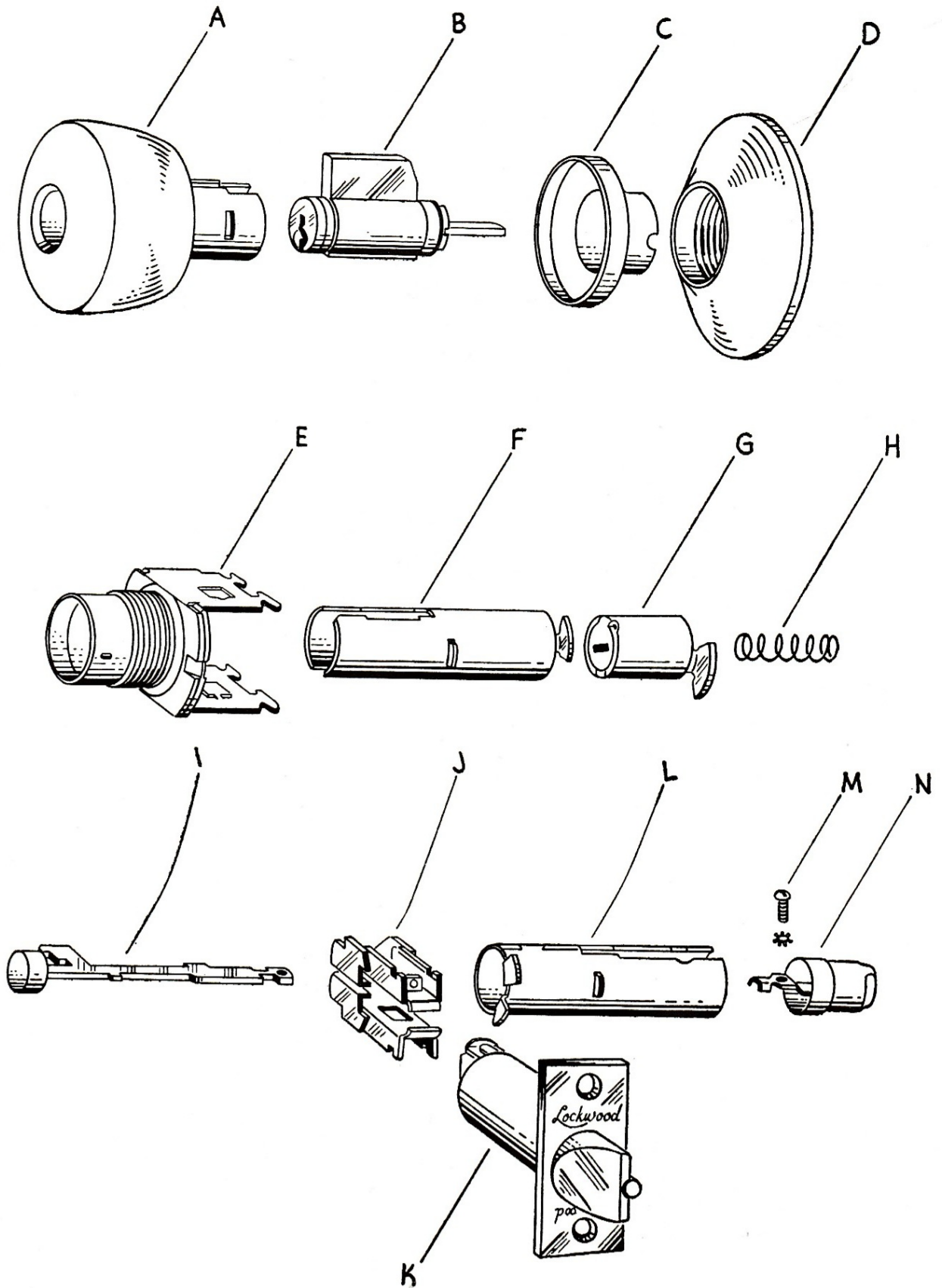
The action in opening the lock with a key is shown above. As the key is turned, the cylinder activates a pusher arm, which in turn, activates the push plate, retracting the bolt.



When the inside button is pushed in, the push button stem moves sideward, moving a lug into a locking position in the push plate.

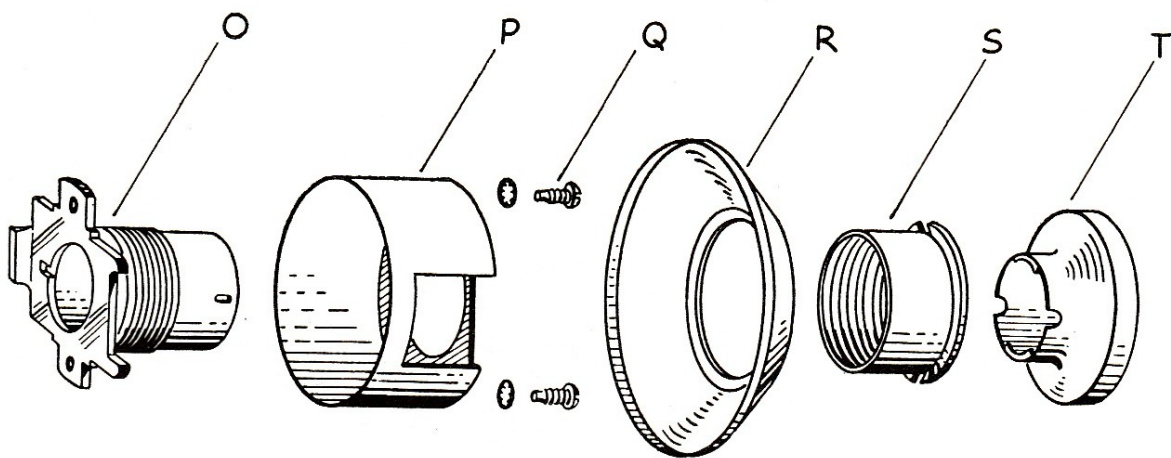
EXPLODED VIEW Lockwood "S" Series

Manufactured by Lockwood Hardware Manufacturing Company
Fitchburg, Massachusetts



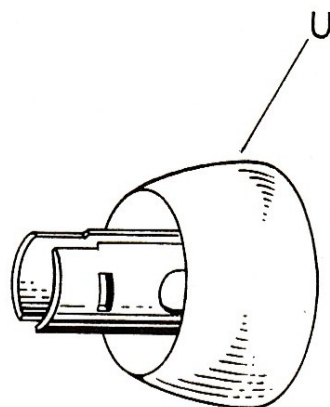
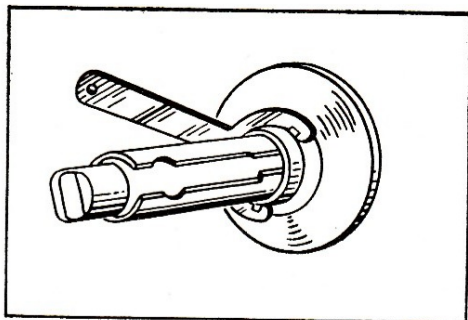
A. Outside Knob
B. Cylinder
C. Outside Knob Collar

D. Outside Rose
E. Retractor Housing
F. Outside Knob Spindle



- G. Key Release Spindle
- H. Spring
- I. Push Button Stem
- J. Retractor
- K. Latchbolt
- L. Inside Knob Spindle
- M. Push Button Spindle Retaining Screw

- N. Push Button
- O. Partial Retractor Housing
- P. Housing Cover
- Q. Retaining Screws
- R. Inside Rose
- S. Adjustable Sleeve
- T. Inside Knob Collar
- U. Inside Knob

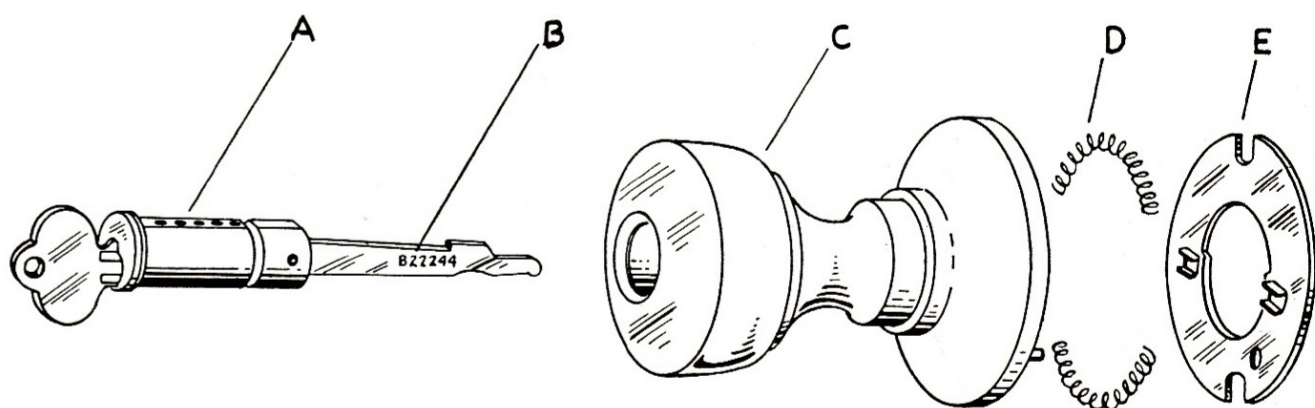


Service Notes

This lockset is adjustable for doors having thicknesses of $1\frac{3}{8}$ " and $1\frac{3}{4}$ ". For doors, $1\frac{3}{8}$ " thick, screw the outside rose on the threaded portion of the retractor housing base. Final tightening for the door thickness adjustment is made with the inside rose. Before slipping on the inside rose, make a mental note of the position of the retainer hole in the sleeve attached to the inside knob. Then, slip rose into position and screw it on the

partial retractor housing, using the special spanner wrench supplied with the lockset to tighten it securely.

To adjust for doors $1\frac{3}{4}$ " thick, screw outside knob on the threaded portion of the retractor housing spindle until it is $\frac{3}{8}$ " from the retractor housing base. Final tightening for door thickness adjustment is made with the inside rose in the same manner as for doors that are $1\frac{3}{8}$ " thick. (described above).



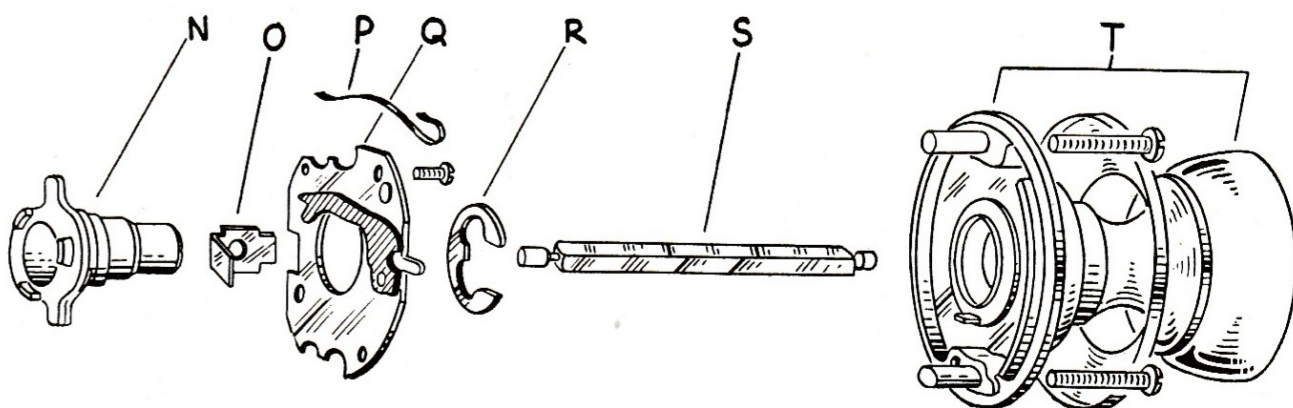
EXPLODED LOCK VIEW

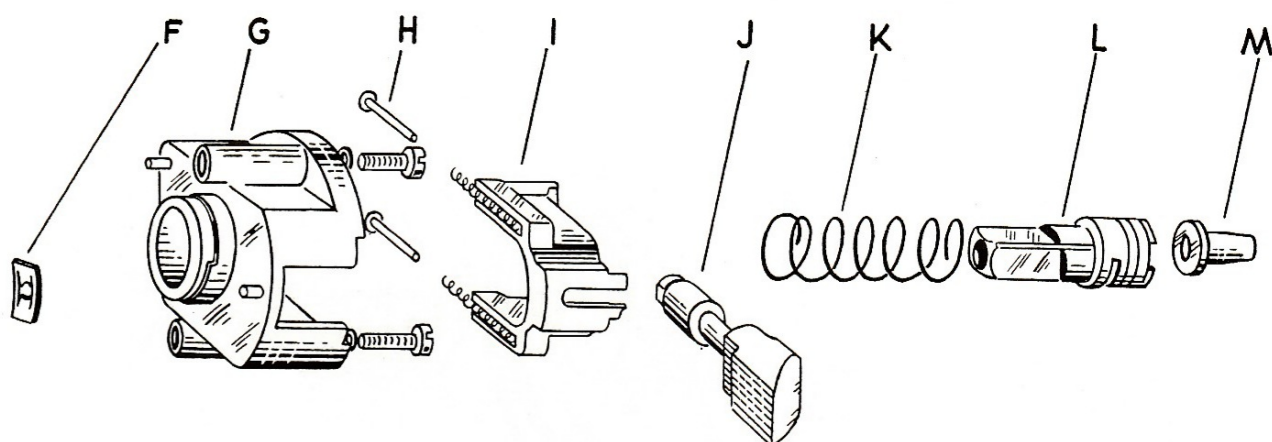
Reddi-Mount 500 Nassau X95-3

Includes latest construction changes

Mfg. by J. Chesler & Sons, Inc., Brooklyn, N. Y.

- | | |
|--|---|
| A. Cylinder Plug | K. Spring |
| B. Connecting Bar (Numbers are key depths) | L. Free Spinning Coupling |
| C. Outside Knob Assembly | M. Pusher |
| D. Knob Return Springs | N. Hub |
| E. Spring Chamber Cover (Holds "D" in Rose of Outside Knob Assembly "C") | O. Retainer |
| F. Speed Nut | P. Spring |
| G. Housing Body | Q. Cover Plate (Pivoted lever holds hub in place and acts as a return-to-neutral cam) |
| H. Spring Guides | R. Clip Retainer |
| I. Latch Retractor | S. Spindle |
| J. Latchbolt | T. Inside Knob Assembly |





SERVICE NOTES ON NEW REDDI-MOUNT

Unlike the old style Reddi-Mount, the cylinder on the New Reddi-Mount can be removed from the outside knob for re-keying without destroying the knob. To remove the cylinder, Chesler's Plug Remover Tool No. K 640 is inserted into the cylinder chamber through the back of the outside knob assembly and pushed in as far as it will go. The tip of the tool will raise the spring loaded retainer which rests in a groove

To remove the installed lock from the door, pry away the inside rose to expose the two bolts attaching the inside knob assembly to the housing body. Remove the bolts and the inside knob. Then pull the housing body and latchbolt angularly through the installation hole. (See Figure 2.) Remove the two large machine screws through the round and oval holes in the housing body and separate the

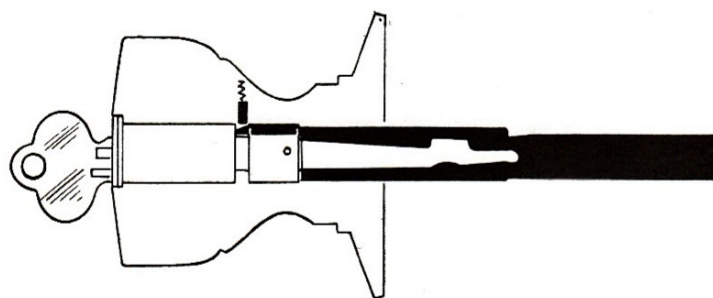


Figure 1

in the tail of the cylinder. (See Figure 1) Then, the key is inserted into the keyway and the tool is pushed again as far as it will go, which, in turn, pushes the cylinder out of the front of the knob.

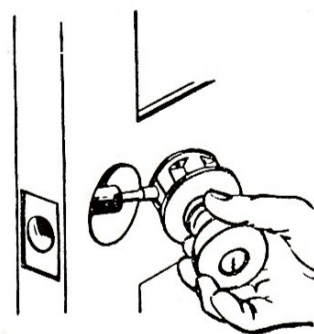
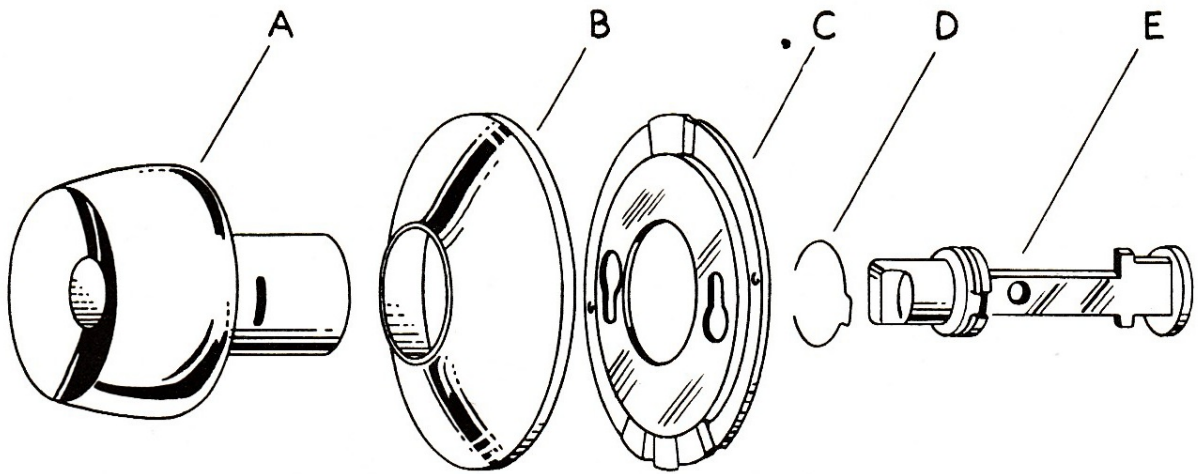


Figure 2

outside knob from the housing body.

Like the old style Reddi-Mount, the new version is adjustable to various door thicknesses by means of a special spindle.

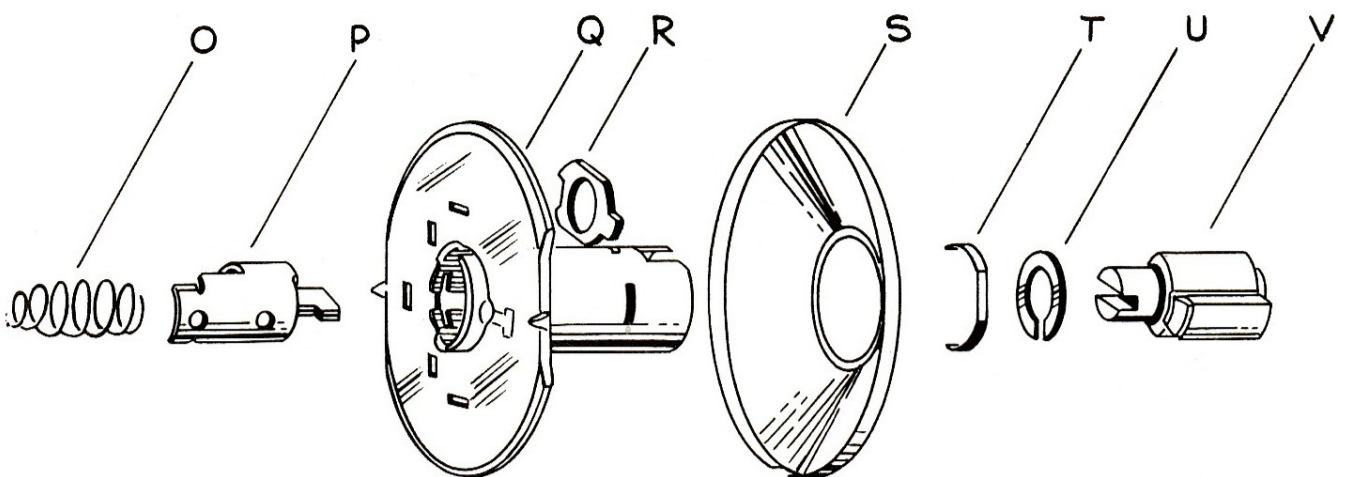


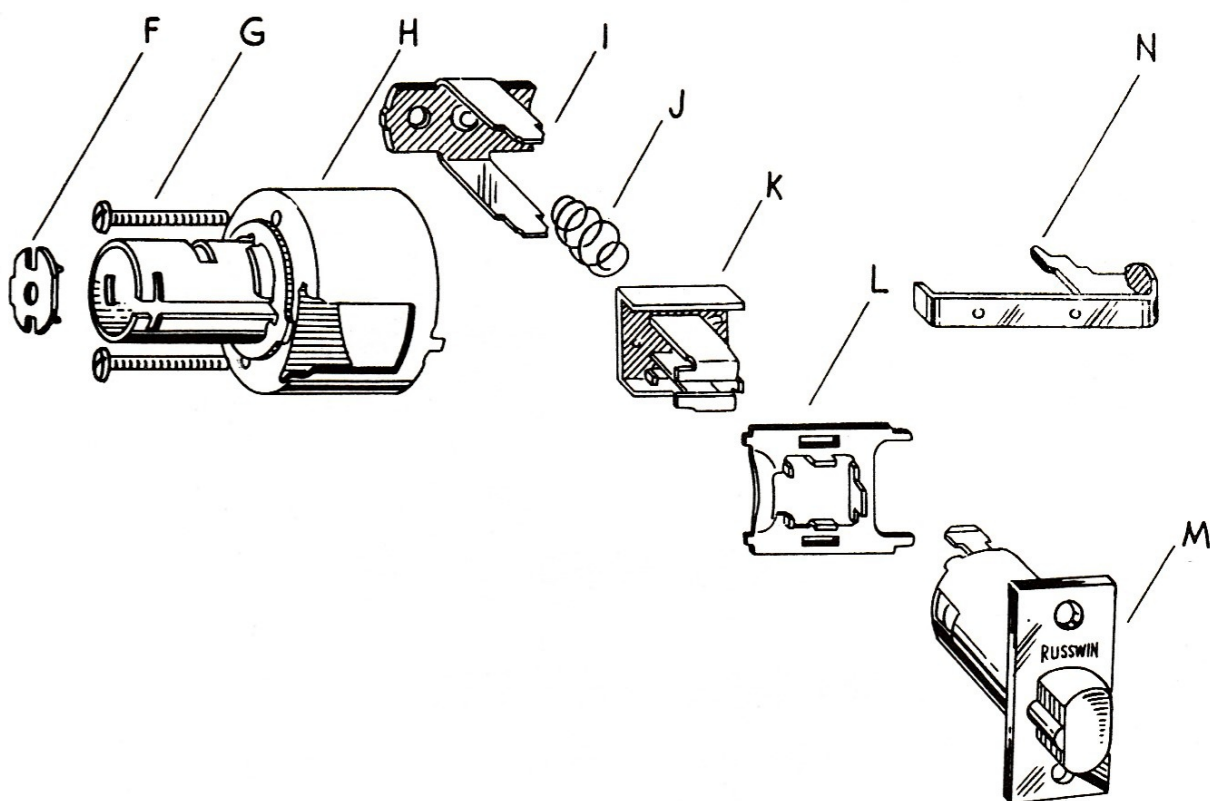
EXPLODED VIEW

Russwin U 240 - Homegard Reversible Lockset

Manufactured by Russell & Erwin Division,
American Hardware Corporation, New Britain, Conn.

- | | |
|------------------------------------|--|
| A. Inside Knob | M. Latchbolt |
| B. Inside Rose | N. Locking Stem |
| C. Inside Rose Liner | O. Spring |
| D. Spring | P. Cam |
| E. Push Button Assembly | Q. Outside Rose Liner and Knob Spindle |
| F. Clutch Plate | R. Knob Retainer |
| G. Screws | S. Outside Rose |
| H. Inside Knob Spindle and Housing | T. Spring |
| I. Retractor Frame | U. Spacer |
| J. Spring | V. Cylinder |
| K. Retractor | W. Outside Knob |
| L. Retractor Frame Plate | |





SERVICE NOTES

The hand of the lock is changed by the following method: Lock the outside knob by depressing and turning the thumb piece in the inside knob. Insert the key into the outside knob and turn key one quarter rotation; at the same time, depress the knob retainer with a small nail and pull the knob off the spindle. (See Figure 1).

Remove the key from the unattached outside knob; turn the knob one half turn. Then, with the knob retainer hole in line with the knob retainer (Figure 2), replace the knob on spindle, pushing it on until it touches the knob retainer. Depress the knob retainer and push knob on spindle as far as possible.

Reinsert the key and turn one quarter turn. Then, push knob further on spindle with the key turned so that the knob retainer engages the slot in the knob. Try to remove knob to check retainer engagement.

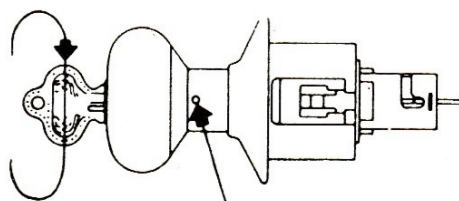
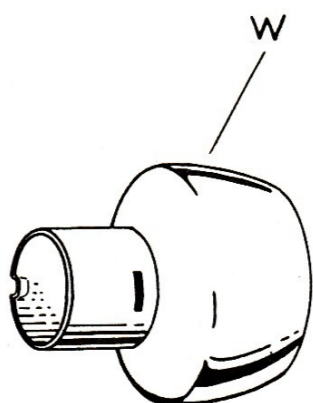


Figure 1

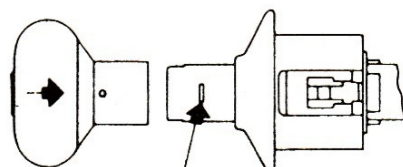
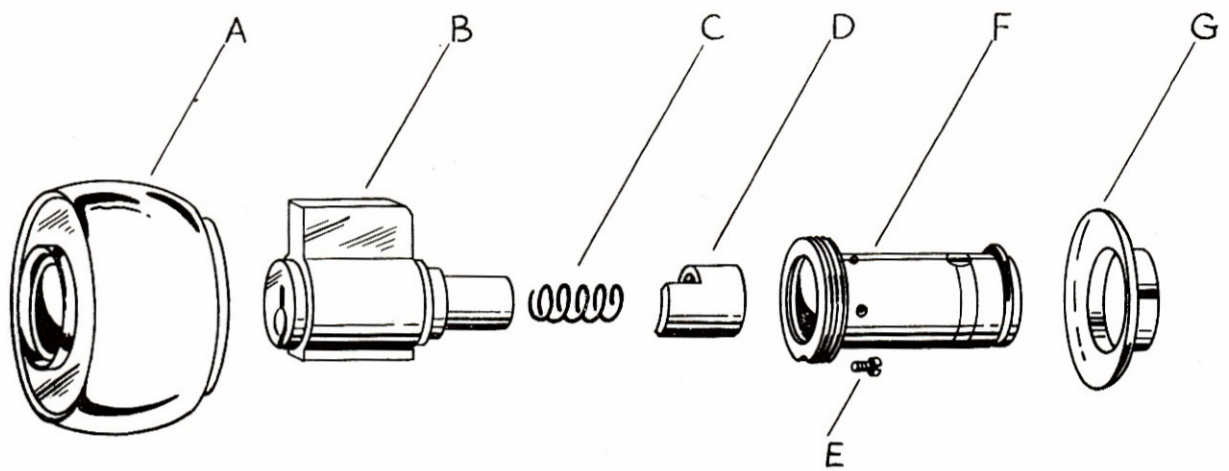


Figure 2

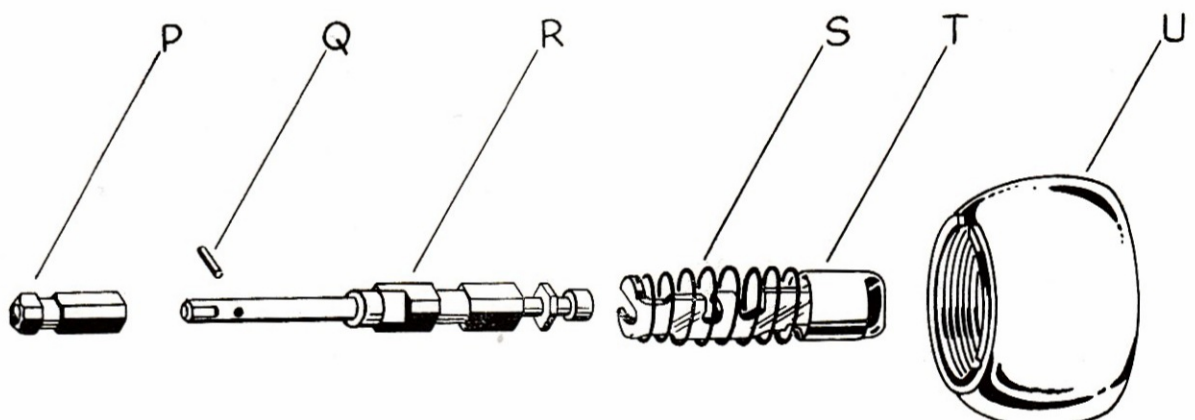


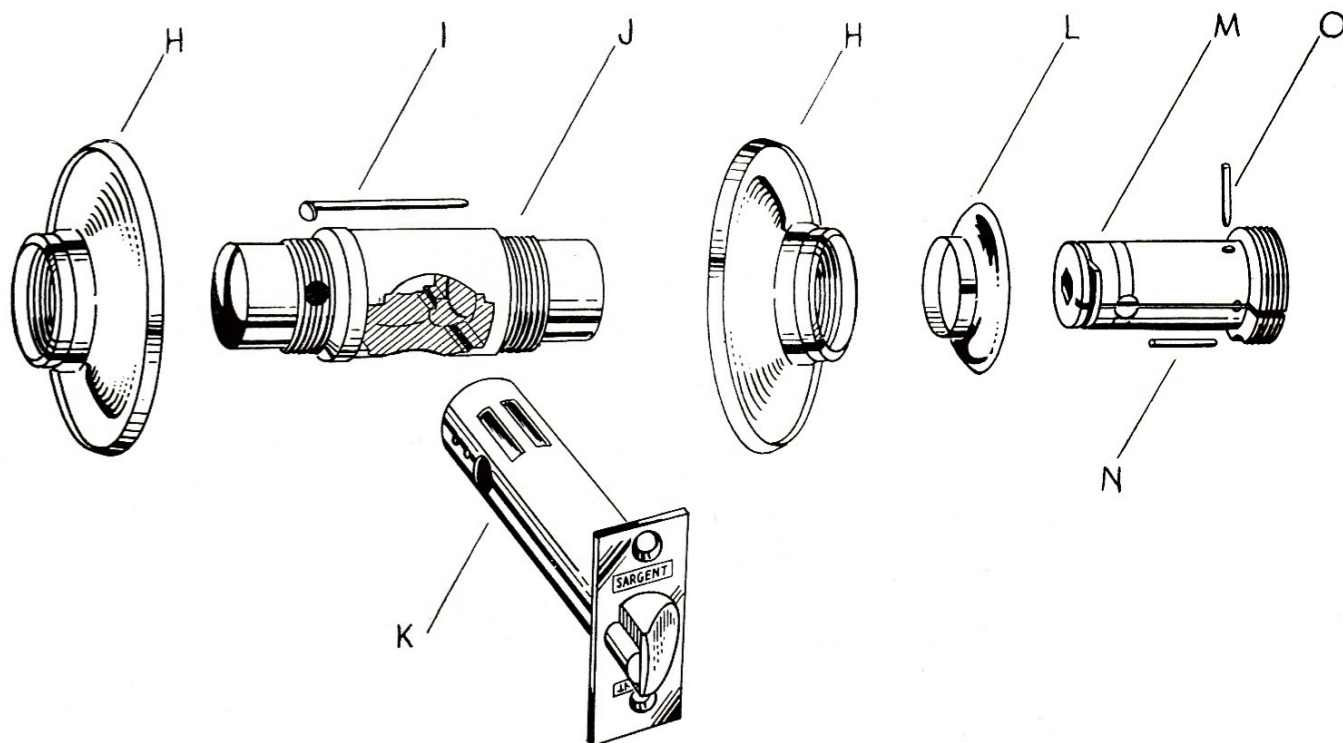
EXPLODED VIEW

SARGENT SENTRY LOCK

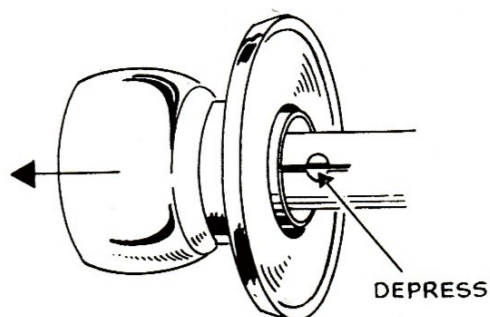
Manufactured by Sargent & Company,
New Haven, Connecticut

- | | |
|----------------------------------|-----------------------------|
| A. Outside Knob | K. Latchbolt |
| B. Cylinder | L. Knob Cap |
| C. Spring | M. Knob Shank |
| D. Cam | N. Knob Shank Stop Pin |
| E. Knob Shank Retaining
Screw | O. Locking Button Stop Pin |
| F. Knob Shank | P. Sliding Spindle Segment |
| G. Knob Cap | Q. Spindle Segment Pin Stop |
| H. Roses | R. Spindle |
| I. Latchbolt Keeper | S. Spring |
| J. Knob Bridge Housing | T. Locking Button |
| | U. Inside Knob |



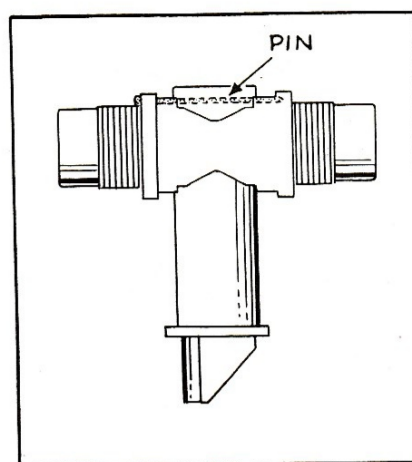


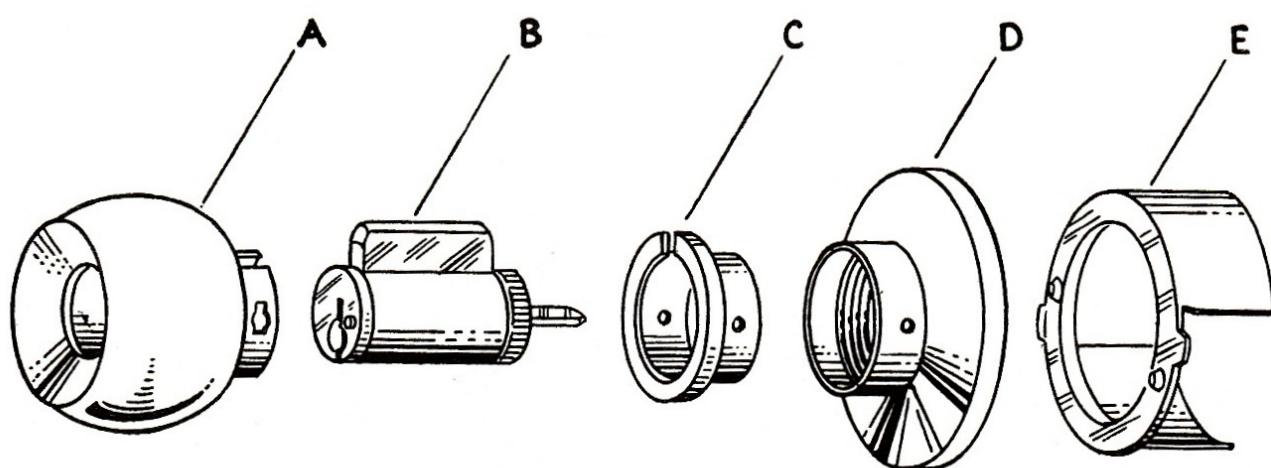
SERVICE NOTES



During disassembly, to remove either knob shank from the knob bridge housing, rotate the rose until its hole is positioned above the hole in the bridge housing. Then, depress the spring retainer and pull knob from housing.

The latch bolt is anchored to the bridge housing by means of a keeper pin which extends through the edge lugs of the bridge housing. To disengage the latchbolt, merely pull out the pin.

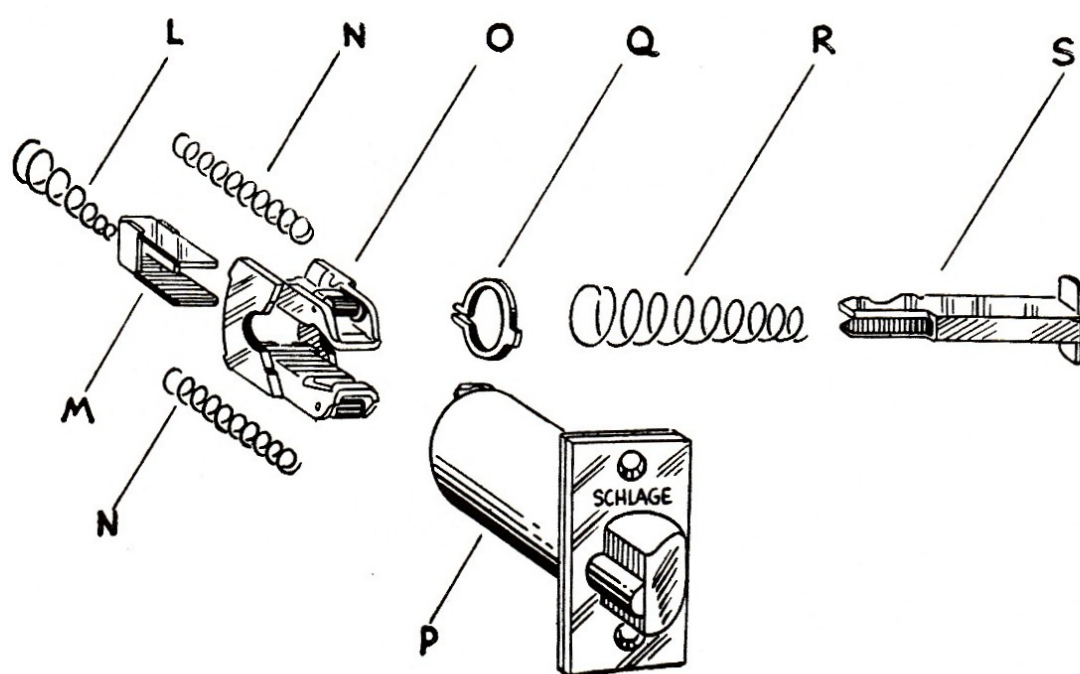




Exploded Lock View

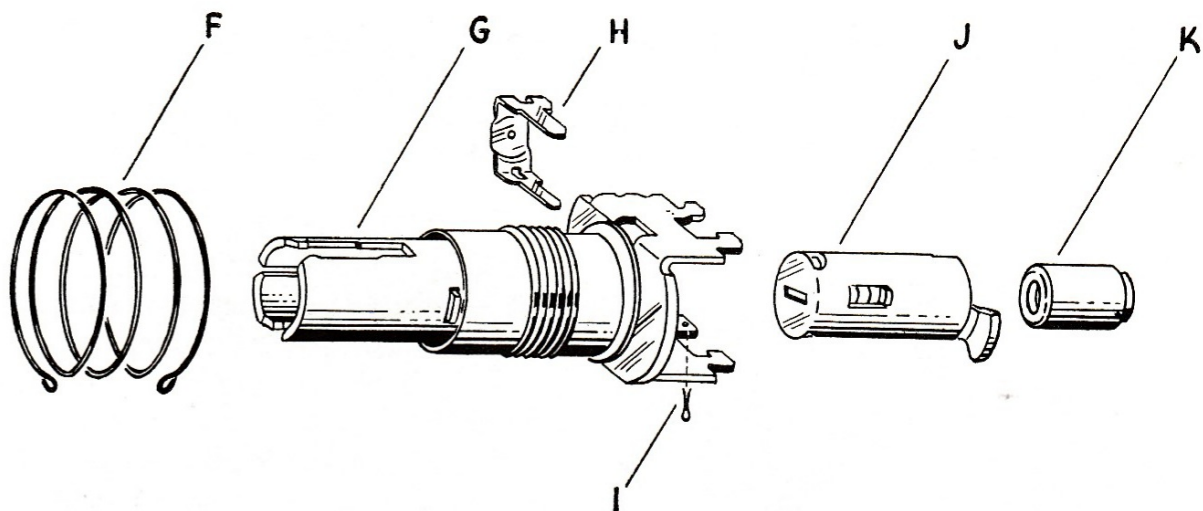
HOTEL LOCK D85PD

**Manufactured by the Schlage Lock Company,
San Francisco, California**



A—Knob Top
B—Cylinder Unit
C—Knob Sleeve
D—Outside Escutcheon (Rose)
E—Anchor
F—Anchor Spring

G—Hub and Spindle
H—Spring Post Shoe
I—Cotter Pin
J—Key Spindle
K—Plunger Bushing
L—Slide Spring



M—Slide Catch

N—Slide Spring

O—Slide Unit

P—Latch Unit

Q—Spindle Washer

R—Plunger Hammer Spring

S—Plunger Hammer

T—Spindle and Hammer

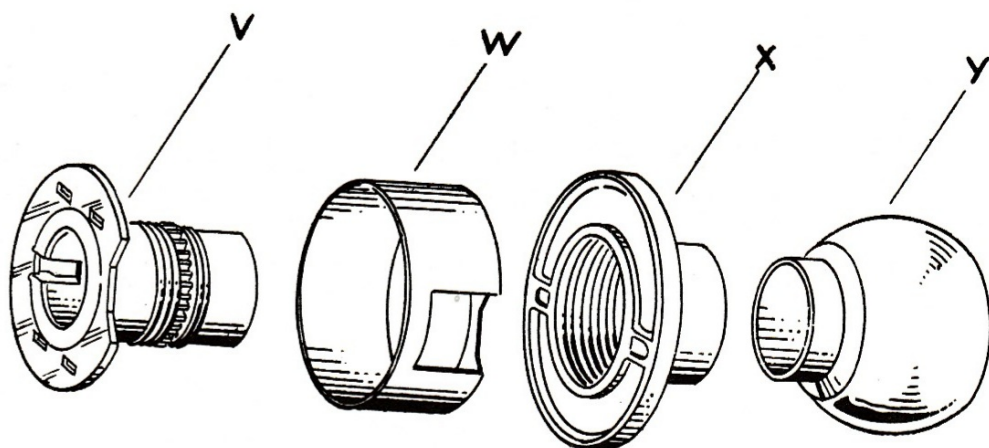
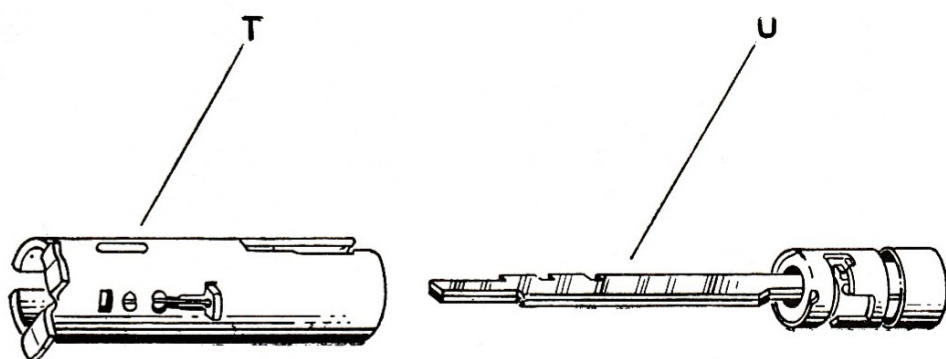
U—Plunger Unit

V—Inside Hub

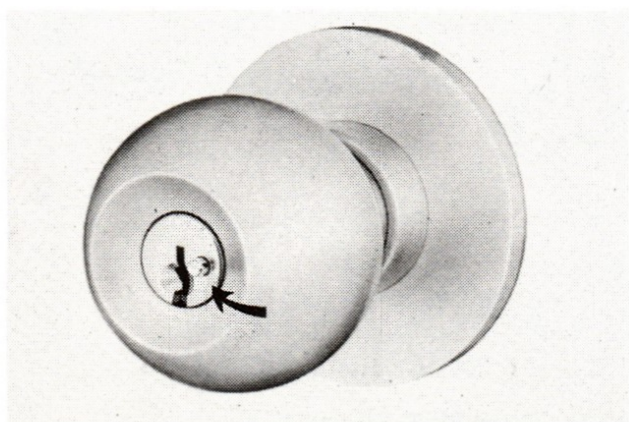
W—Housing

X—Inside Escutcheon (Rose)

Y—Knob



Occupancy Indicator and Lockout Feature on Schlage D85PD

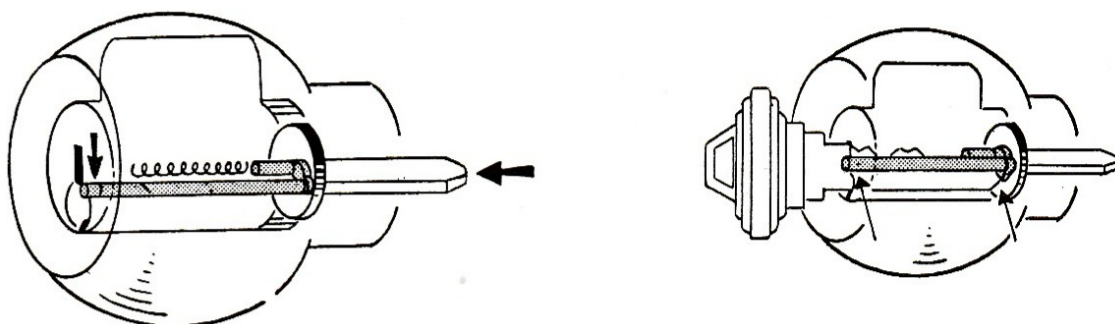


Two of the features of the Schlage D85PD hotel lockset are the **visual occupancy indicator** (See Illustration at right) a mechanical device which indicates when the room is being occupied and the **special lock-out** operation which prevents the regular or master key from opening the lock when it is engaged. Both of these features are closely related in operation and are activated by the inside push-type locking button.

The visual occupancy indicator protrudes from the cylinder in the outside knob when the **inside locking button** is pushed. In its extended position, the indicator also prevents the regular key from entering all the way into the keyway, thereby preventing anyone on the outside from turning the cylinder to retract the latchbolt.

The indicator is nothing more than **two pins**, a long one and a short one, joined to a **bracket plate** at one end. The long pin ($1\frac{7}{32}$ " long) fits into a hole in the plug, which is drilled through the length of the plug alongside the keyway. The short pin ($\frac{1}{4}$ " long) fits into a hole drilled parallel to the longer pin hole in the opposite side of the plug. A spring is placed in the short pin hole to exert pressure on the entire indicator towards the **INSIDE** of the lockset. The bracket plate crosses the path of the keyway, behind the last pin.

A $\frac{3}{32}$ " deep recession, in the shape of the bracket plate, is cut in the back of the plug. When the occupancy indicator is not in its extended position, the back surface of the bracket plate is flush with the back surface of the plug. However, when the indicator is pushed into its extended position, the bracket plate slides into its recession in the rear of the plug, and the front end of the long pin protrudes from the face of the plug about $\frac{1}{8}$ ".



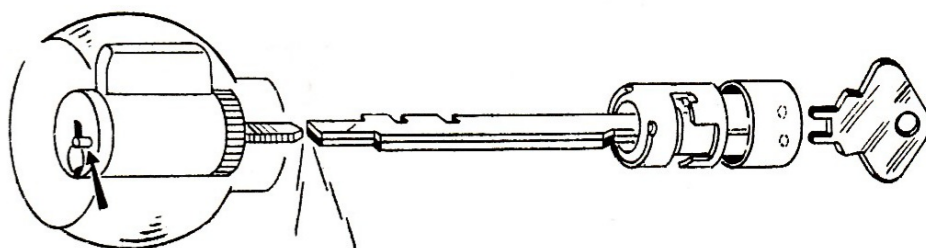
The above illustrations show why the regular or master key cannot enter all the way into the keyway when the indicator is out. Notice how the tip of the blade is blocked at the rear of the plug.

The function of the indicator bracket plate, therefore, is to block the rear of the keyway path by moving forward $3/32''$ when activated by the push button. Thus, when the inside push button is pushed, the long pin extends from the cylinder while the bracket plate blocks the tip of the key.

The visual occupancy indicator is moved by linkages extending from the push button assembly, through the latch retractor, and the cylinder lever. The push button is held when pushed in, by the notches in the push button stem, which engages in the side edges of the slide catch, the U-shaped part that fits into the center of the slide unit. (See Exploded View).

Here, another feature of the lockset is brought to light—**automatic throwoff** of the push button. Depressing the latchbolt, when the push button is engaged, moves the slide unit back, which in turn, pushes back the push button slide catch, releasing the push button stem. This is an important feature because it prevents unintentional lockouts.

The special lock-out feature of this lockset performs two functions: first, it extends and **HOLDS OUT** the occupancy indicator so that the indicator bracket plate blocks the complete entry of the regular or master key; and second, it prevents automatic throw-off of the inside locking button. Thus, the hotel management can use this feature for intentional lockouts. The lock cannot be opened with the regular or master key, **ONLY THE SPECIAL EMERGENCY KEY WILL OPERATE IT.**

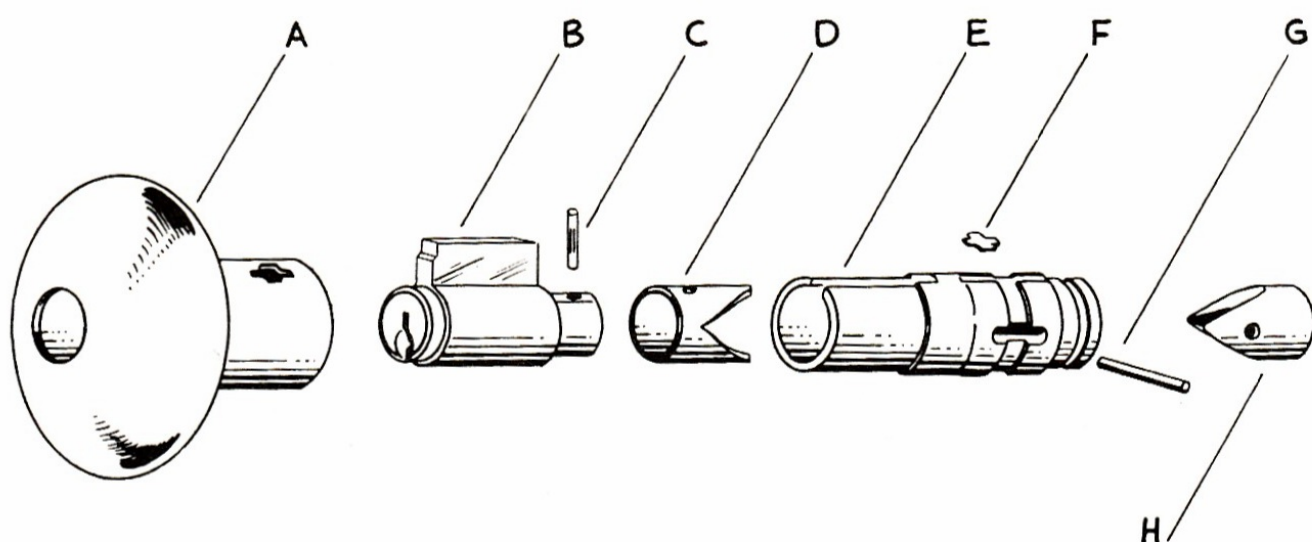


LOCK OUT

Engaging the lock-out feature is accomplished by pushing in the inside locking button and **TURNING** it. The manufacturer supplies a special spanner key for turning the button. (See above illustration.) It is a short flat steel key with two prongs which fit into two corresponding holes in the center of the push button. When the spanner key is inserted into the holes, the prongs depress a separate locking lug (See Exploded View). Note that there are two lugs. **THE PUSH BUTTON CANNOT BE TURNED UNLESS THIS LUG IS DEPRESSED.** Once depressed, the push button can be turned until the both locking lugs fall into a separate groove, preventing the button from springing back. As long as the locking lugs are in the locking grooves, the push button will remain in, the occupancy indicator will stay out, and the automatic throw-off of the push button will be by-passed.

To release the push button, the spanner key must be inserted into the holes and pushed in to depress the lugs; then, turned to move

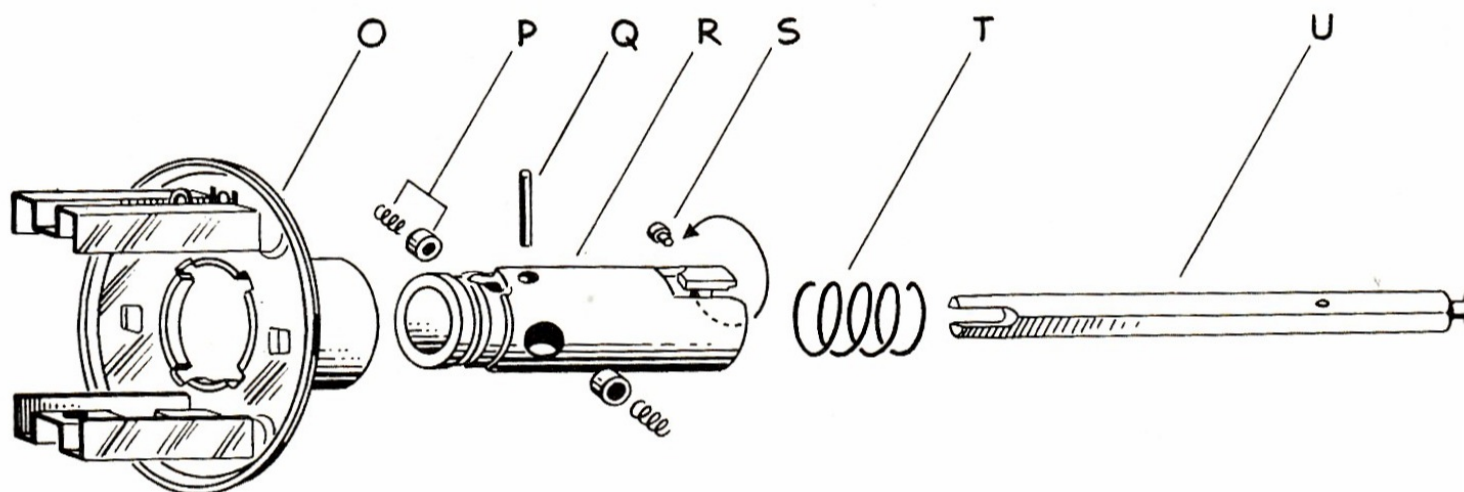
(please turn to page 34)

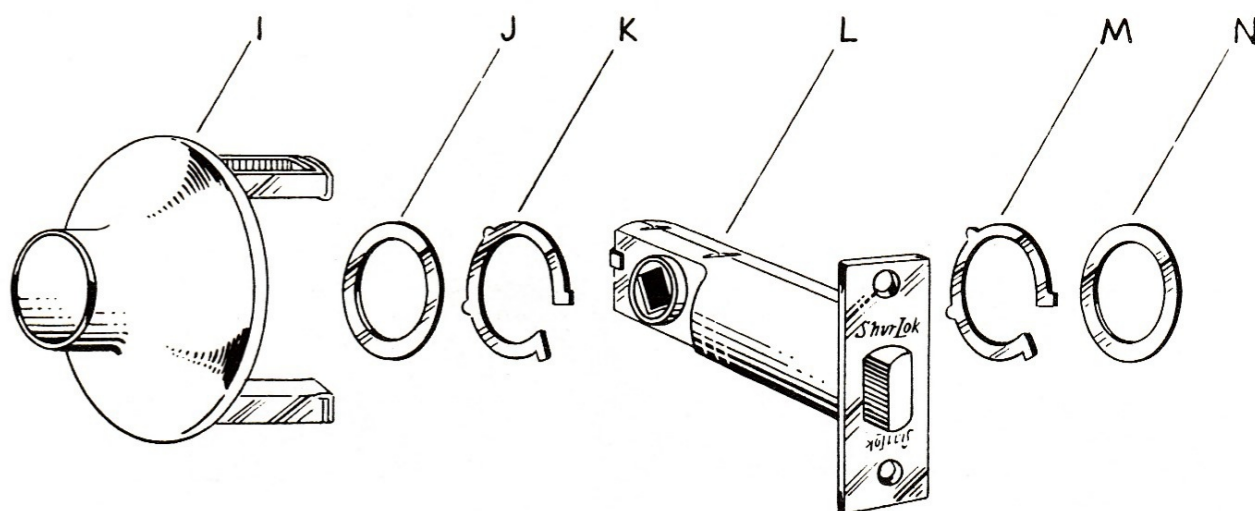


EXPLODED VIEW SHURLOK No. 735

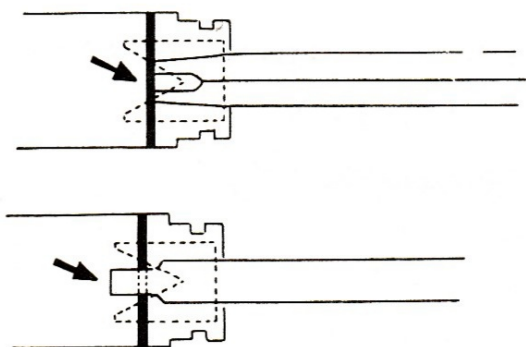
Manufactured by Tegco Division,
Metallon Products, Inc., Los Angeles, Calif.

- | | |
|------------------------|--|
| A. Outside Knob | N. Washer |
| B. Cylinder | O. Inside Rose and Bracket |
| C. Cam Retaining Pin | P. Spindle Position Stop and Pressure Spring |
| D. Cylinder Cam | Q. Spindle Retaining Pin |
| E. Knob Bearing | R. Knob Bearing and Spindle Casing |
| F. Knob Retainer | S. Inside Button Pin Stop |
| G. Coupling Pin | T. Spring |
| H. Cam Coupling | U. Spindle |
| I. Outside Rose | V. Button Spring |
| J. Washer | W. Inside Locking Button |
| K. Retaining Ring | X. Inside Knob |
| L. Latch Bolt Assembly | |
| M. Retaining Ring | |





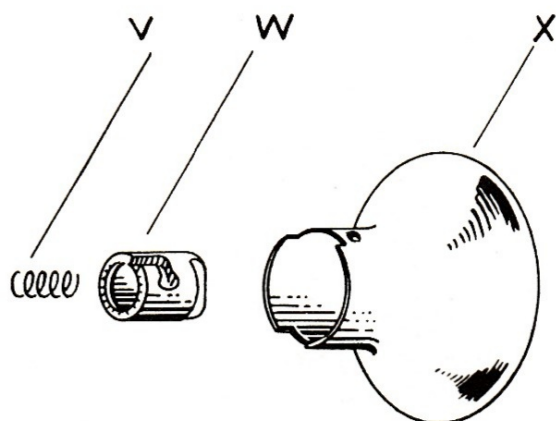
SERVICE NOTES

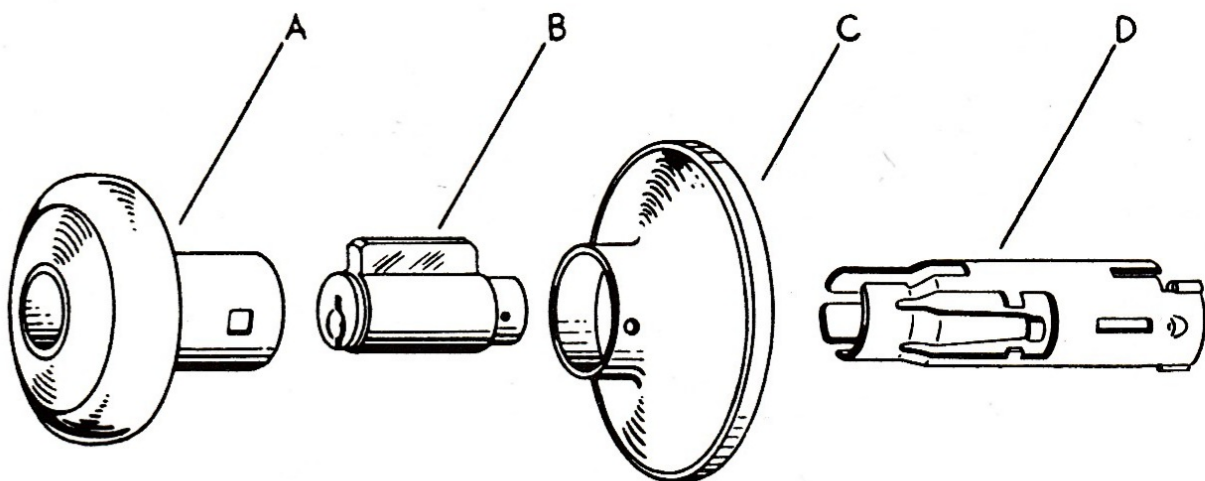


This lock is adjustable for $1\frac{3}{8}$ " and $1\frac{3}{4}$ " doors by means of the slot at the outside end of the spindle. For $1\frac{3}{4}$ " doors, the prongs of this slot rest against the coupling pin, thus lengthening the distance (See Top illustration). For $1\frac{3}{8}$ " doors, the slot straddles the coupling pin to shorten the distance (See Bottom illustration).

To change the slot for *thinner doors*, hold inside rose and turn in *locked position* right or left one click. To change the slot for *thicker doors*, hold inside rose and turn knob in *locked position* right or left one click.

Inside turn button must always be kept in locked position when installing lock.



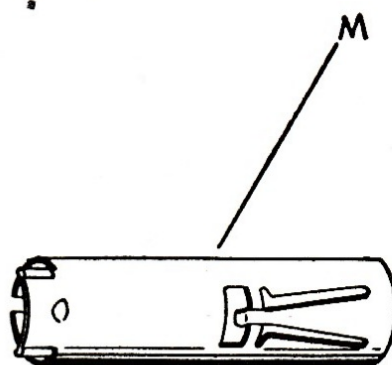
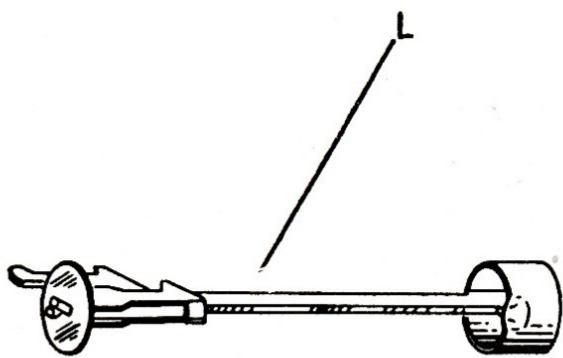


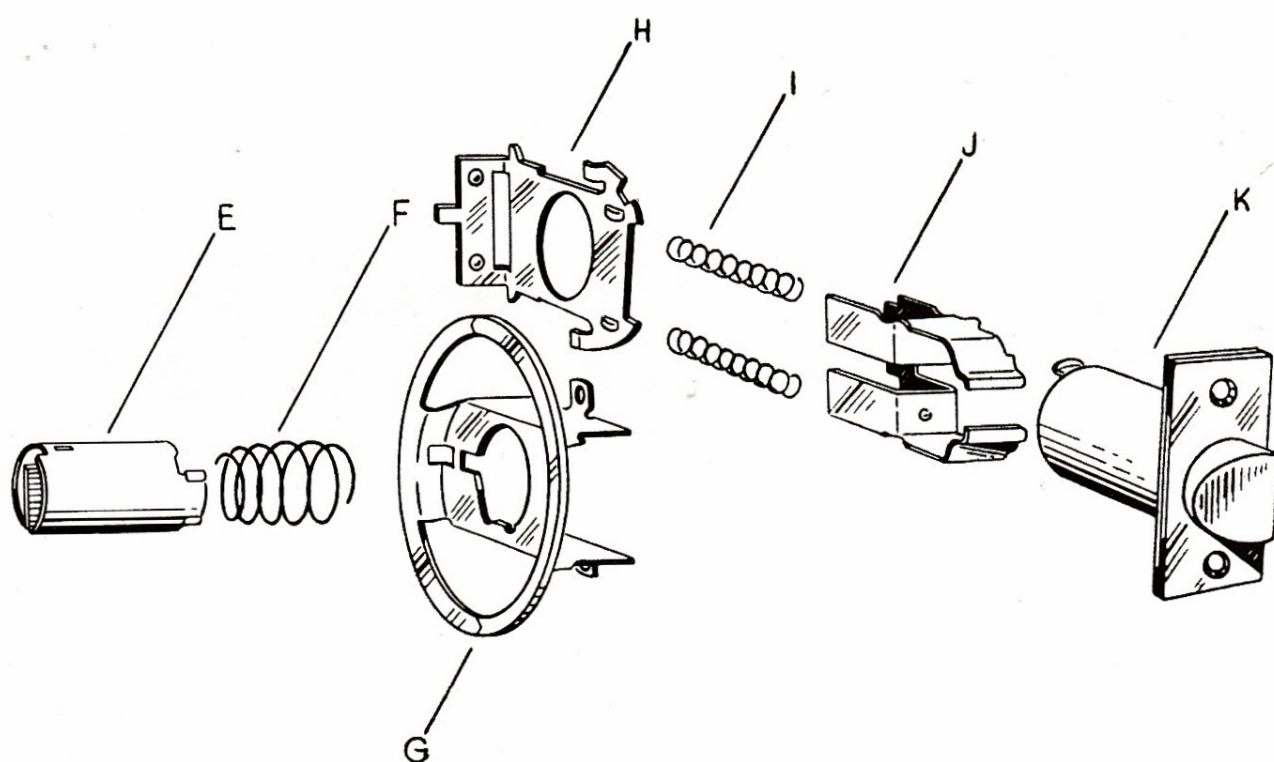
EXPLODED LOCK VIEW

S.A.F.E. LOCKSET—MANUFACTURED IN TORINO, ITALY

**Distributed in U. S. as TACO Lockset
by Trans-Atlantic Co., Philadelphia, Pa.**

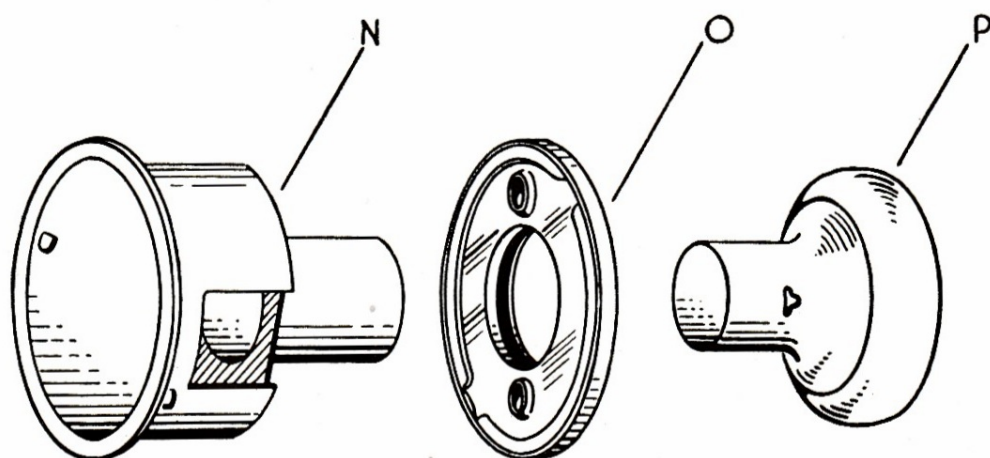
- | | |
|-----------------------------|----------------------------|
| A. Outside Knob | E. Hub |
| B. Cylinder | F. Spring |
| C. Outside Rose | G. Retractor Housing Cover |
| D. Spindle and Knob Bearing | H. Pusher Plate |

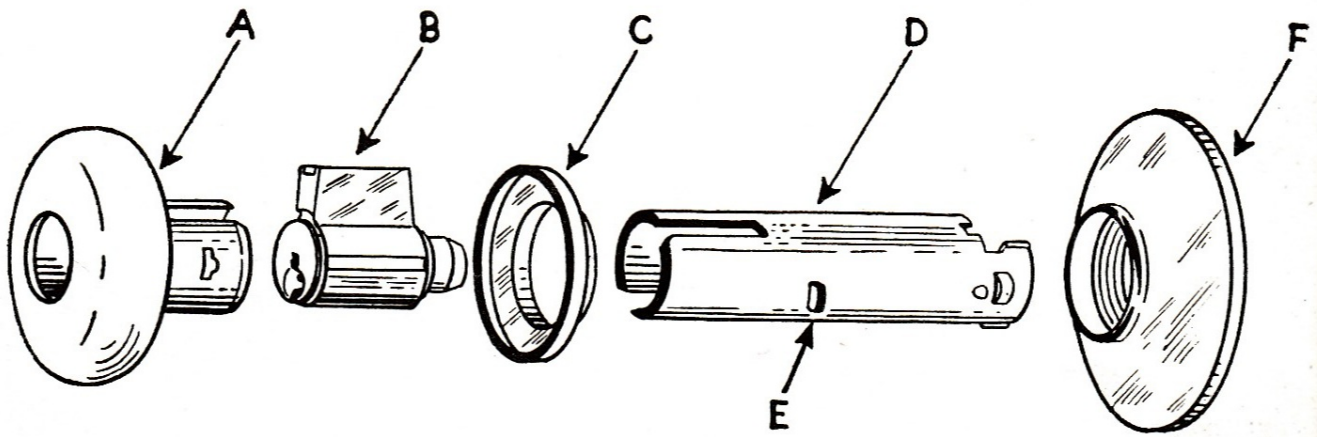




- I. Retractor Springs
- J. Retractor
- K. Latchbolt Assembly
- L. Push Button Stem

- M. Inside Spindle and Knob Bearing
- N. Retractor Housing
- O. Inside Rose
- P. Inside Knob



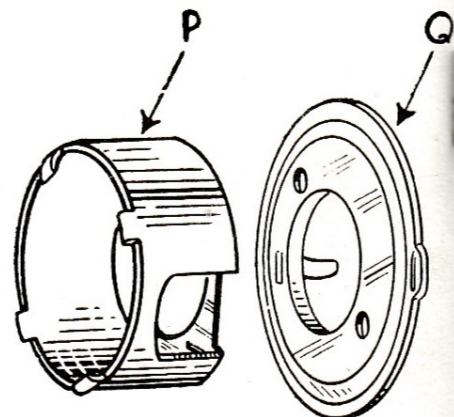


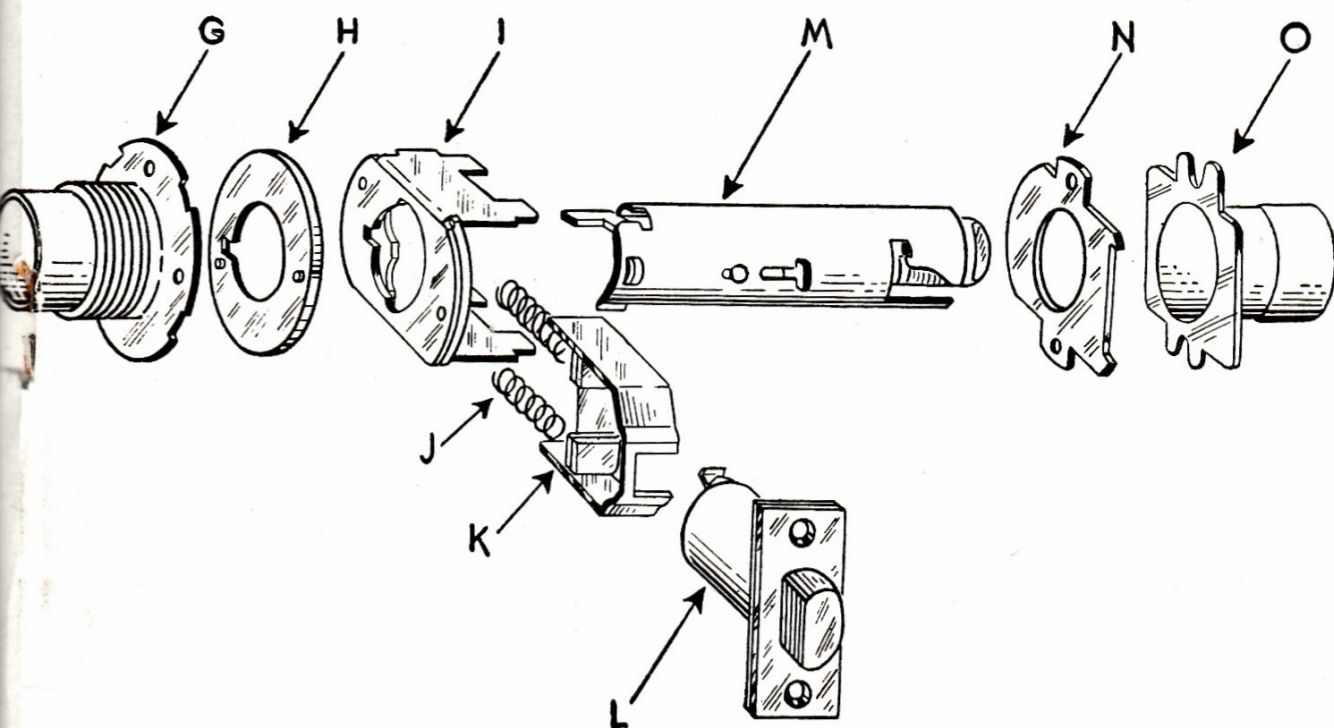
Exploded Lock View

ARROW KEY IN THE KNOB SET
NO. 150

manufactured by Arrow Lock Corporation
Brooklyn, N. Y.

- A—Outside Knob
- B—Cylinder
- C—Knob Ferrule
- D—Outside Spindle
- E—Knob Retainer (depress to release knob)
- F—Outside Rose





G—Knob Stanchion (threaded to permit adjustment of rose for various thicknesses of doors)

H—Spindle Retainer Plate

I—Housing

J—Retractor Springs

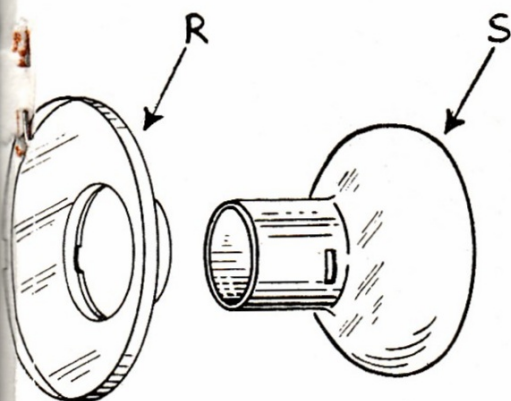
K—Retractor

L—Latch Assembly

M—Inside Spindle and Turn Button Assembly

N—Housing Brace

O—Inside Knob Stanchion

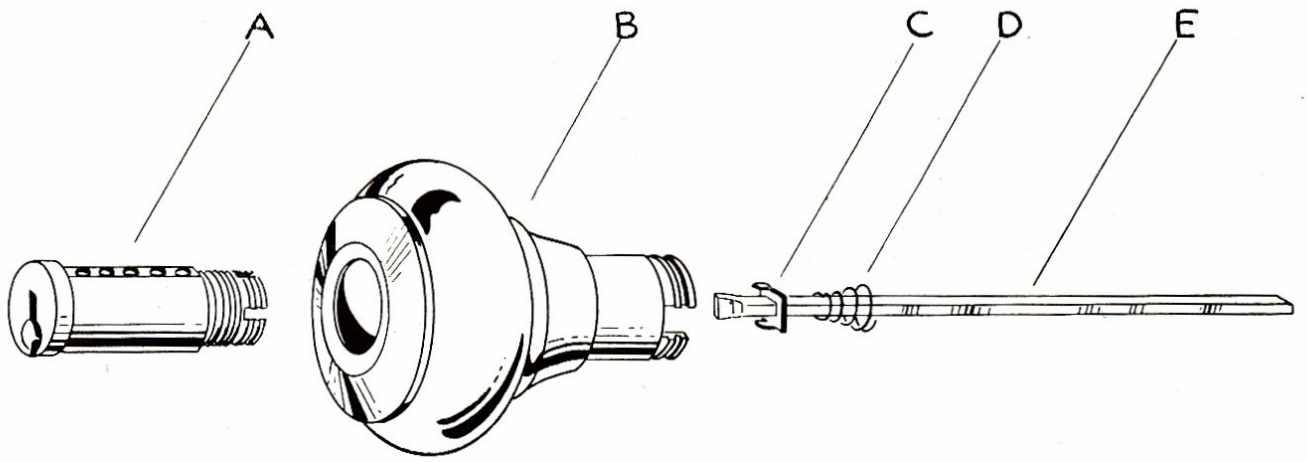


P—Housing Cover

Q—Inside Rose Plate

R—Inside Rose

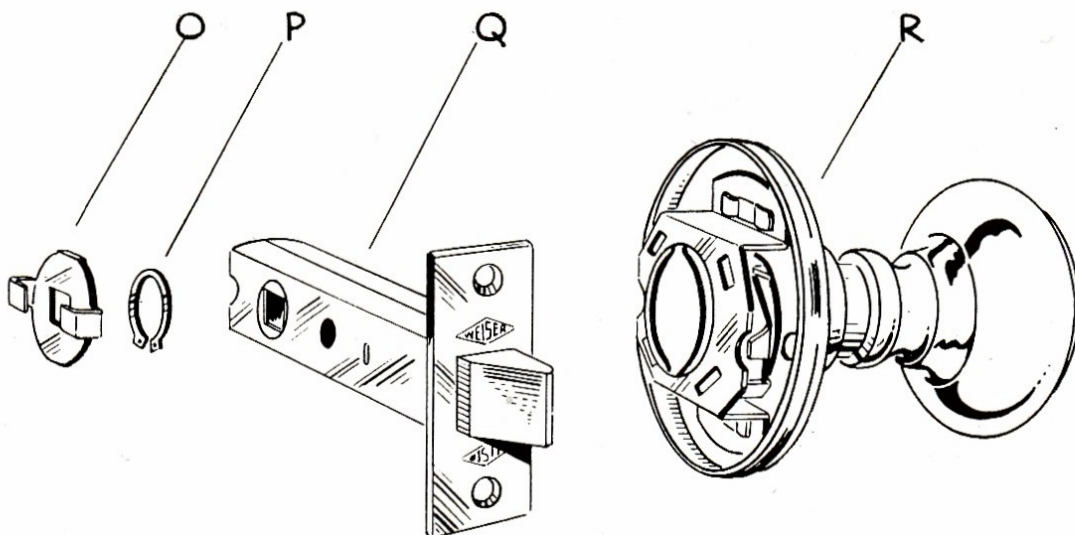
S—Inside Knob

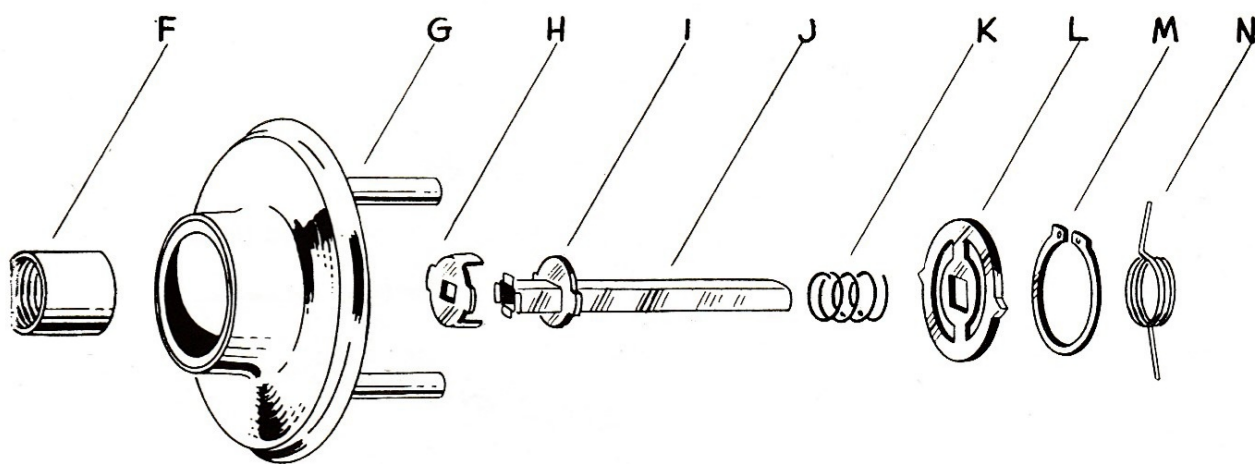


EXPLODED VIEW
Weiser Key-In-Knob Lockset
No. 500 (Improved model)

Manufactured by
The Weiser Co., South Gate, Calif.

- | | |
|--|--------------------------------------|
| A. Cylinder | J. Hollow Spindle |
| B. Outside Knob | K. Spring |
| C. Cylinder Cam | L. Rose Retainer Washer |
| D. Cam Spring | M. Tru-Arc Retainer |
| E. Cylinder Stem | N. Spring |
| F. Cylinder Retainer | O. Spring Retainer
(for Spring N) |
| G. Outside Rose | P. Tru-Arc Retainer |
| H. Cylinder Stem Clutch Plate
(Outer) | Q. Latch Bolt |
| I. Cylinder Stem Clutch Plate
(Inner) | R. Inside Knob |

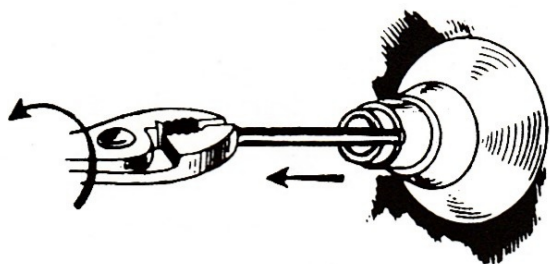




SERVICE NOTES

It is not practical to try to remove the cylinder from the outside knob. However, when necessary to change combinations, remove the cylinder stem and retainer in the following manner:

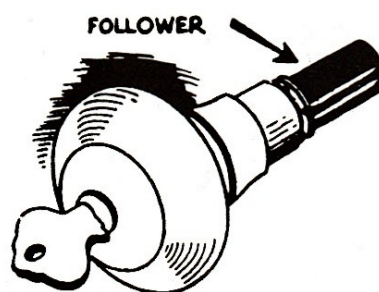
With clutch plates and hollow spindle removed, pull back on stem with pliers and turn counter-clockwise until stem and cylinder retainer screw off end of cylinder (See Figure 1).



(Figure 1)

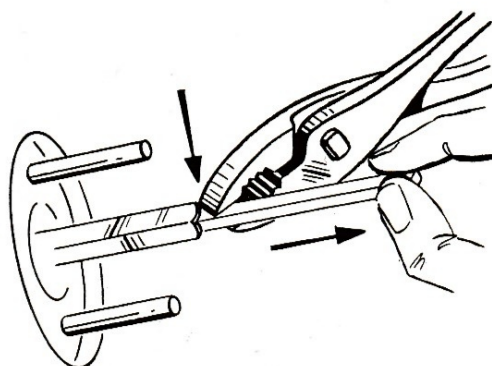
Work with entire knob as though you would work with cylinder alone. Use follower in the regular way (See Figure 2).

When replacing the stem and retainer, be sure to keep a ten-

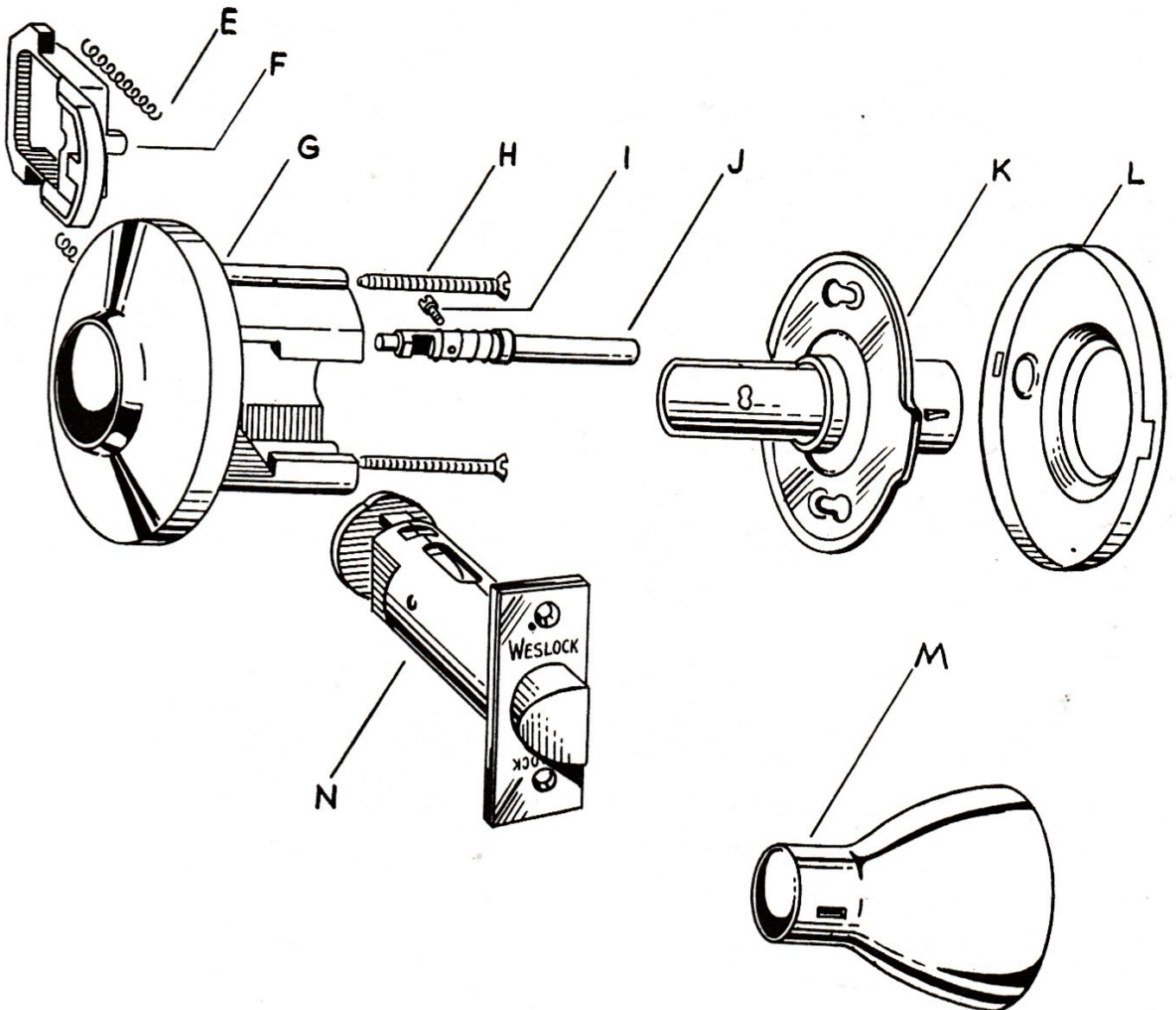
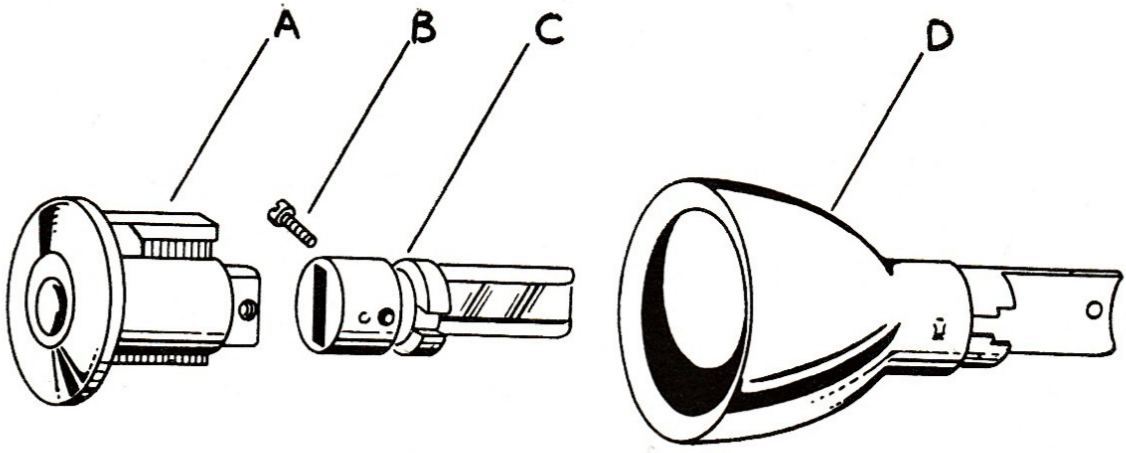


(Figure 2)

sion on the stem so that it does not drop into the slotted end of the cylinder. This can be accomplished by holding the stem in the "stretched" position with a pair of pliers. Notice that the hollow spindle is used as a rest for the pliers while the stem is "stretched" (See Figure 3).



(Figure 3)



EXPLODED VIEW

WESLOCK NO. 830

Manufactured by Western Lock Manufacturing Company,
Los Angeles, Calif.

- | | |
|---------------------------------------|----------------------------------|
| A. Cylinder | H. Screws |
| B. Tail piece Screw | I. Locking Stem Screw |
| C. Tail piece | J. Locking Stem |
| D. Outside Knob and Spindle | K. Inside Rose Plate and Spindle |
| E. Retractor Springs | L. Inside Rose |
| F. Retractor | M. Inside Knob |
| G. Outside Rose and Retractor Housing | |

SERVICE NOTES

To remove the cylinder from the outside knob assembly, insert the key and turn the cylinder 180° counterclockwise (to the left). This will line up the retaining lug groove in the tail piece with the retaining lug in the outside knob. Withdraw the cylinder from the knob. To replace, merely reverse the removal procedure (See Figure 1).

To reverse the hand of the lock, remove the cylinder from the outside knob. Then, remove the tail piece screw and turn the tail piece 180°. Replace the tail piece screw. If the cylinder does not rotate freely at this point by turning key, tap the tail piece screw lightly. This should automatically adjust the plug to the proper position. (See Figure 2).

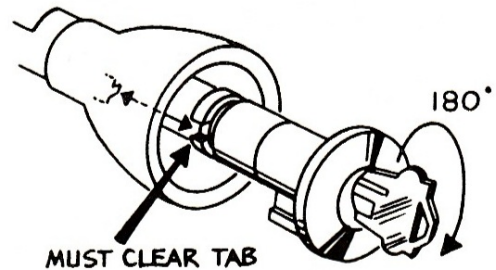


Figure 1

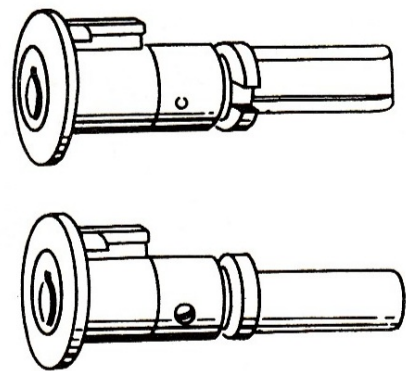


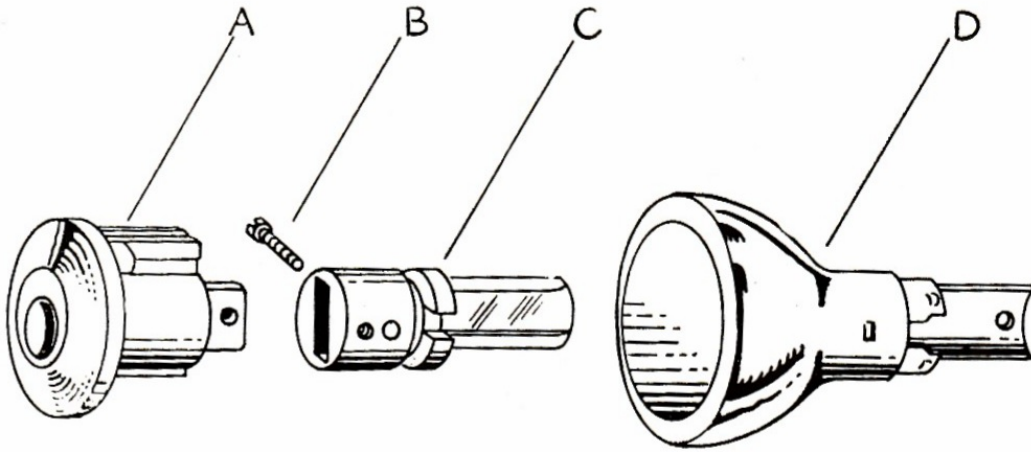
Figure 2

EXPLODED LOCK VIEW

WESLOCK NO. 930

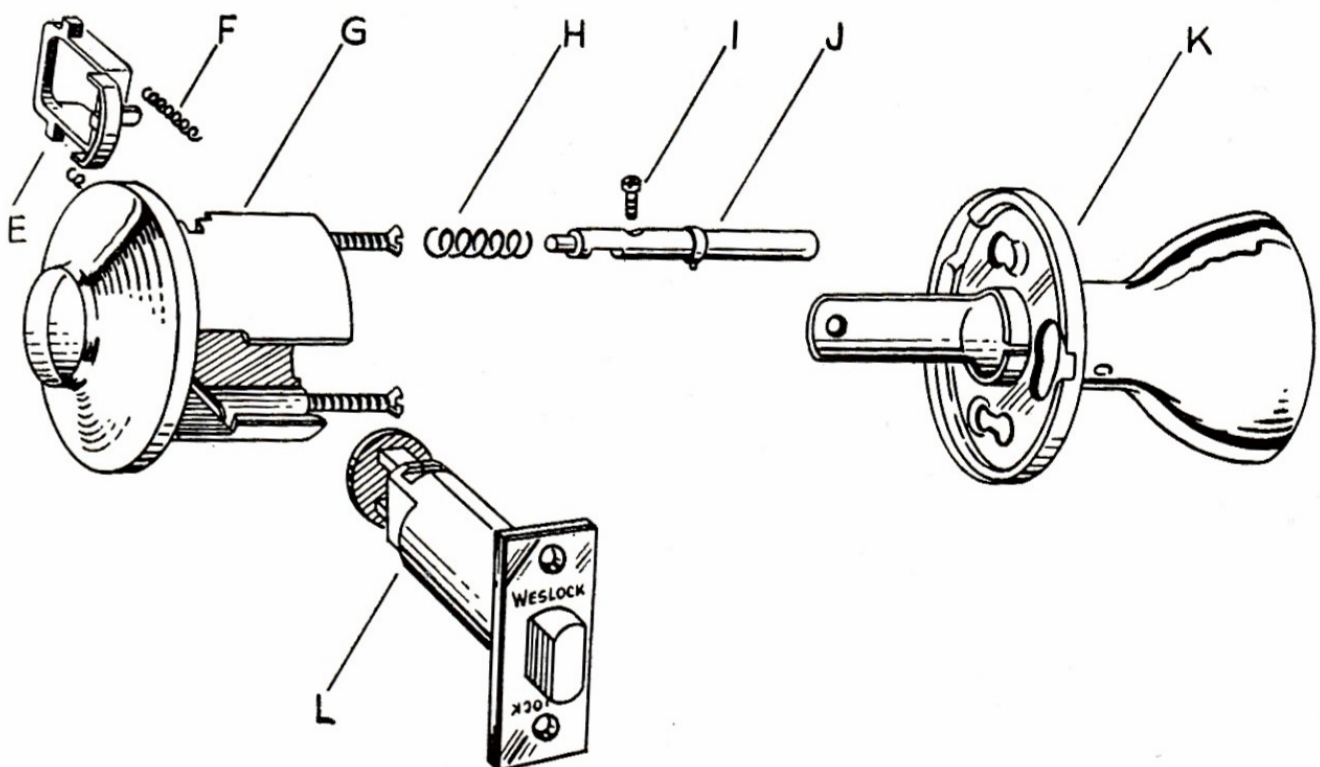
Manufactured by Western Lock Manufacturing Co.

Los Angeles, California



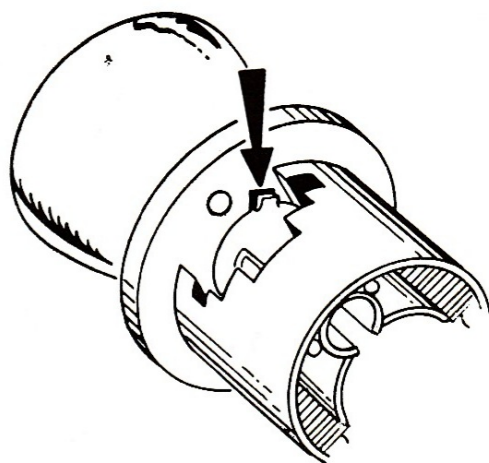
- A. Cylinder
- B. Tailpiece Screw
- C. Tailpiece
- D. Outside Knob and Spindle
- E. Retractor
- F. Retractor Springs

- G. Outside Rose and Retractor Housing
- H. Locking Stem Spring
- I. Locking Stem Screw
- J. Locking Stem
- K. Inside Rose Assembly
- L. Latchbolt



Service Notes

To remove the outside knob assembly from the outside rose and retractor housing, turn the outside knob one quarter turn counter-clockwise (it cannot turn beyond a one quarter rotation). This will line up the retaining lug on the outside knob spindle with its groove in the retractor housing. The alignment of the lug with the groove can be seen through the top opening of the retractor housing.

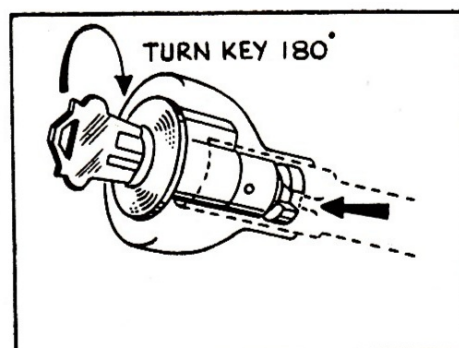


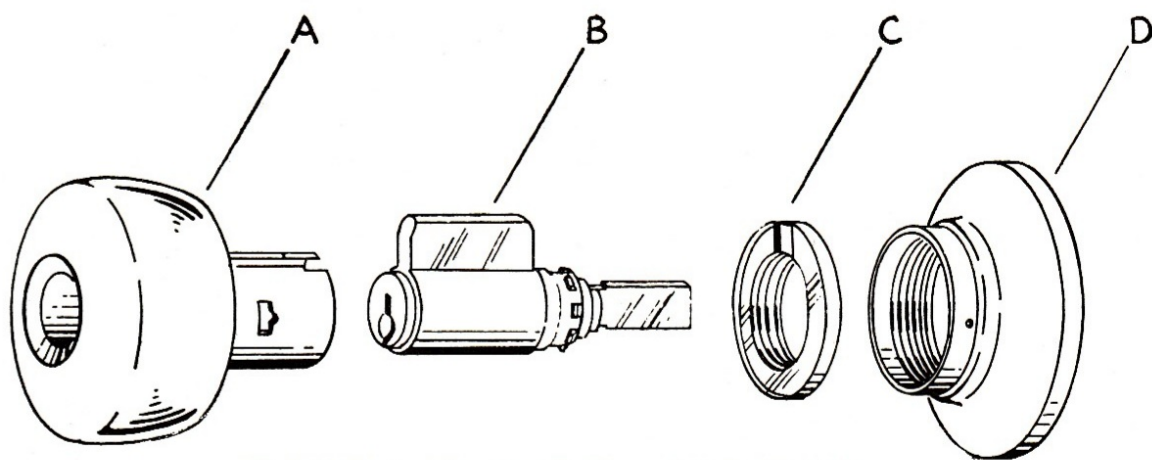
(See above illustration.) Pull outside knob assembly from outside rose and retractor housing. The outside knob assembly cannot be removed with the latch bolt engaged because the latch bolt prevents a full quarter turn of the knob to line up the retaining lug with its groove.

To reverse the hand of the lock, remove the cylinder from the outside knob. Then, remove the tail piece screw and turn the tail piece 180°. Replace the tail piece screw. If the cylinder does not rotate freely at this point by

turning key, tap the tail piece screw lightly. This should automatically adjust the plug to proper position. Turn knob one half turn when replacing cylinder into knob, and turn key one half turn to remove from keyway.

To remove the cylinder from the outside knob assembly, insert the key and turn the cylinder 180° in either direction to line up the groove in the cylinder tailpiece with the retaining lug on the inside of the knob spindle. (See above illustration.) Pull cylinder from outside knob.





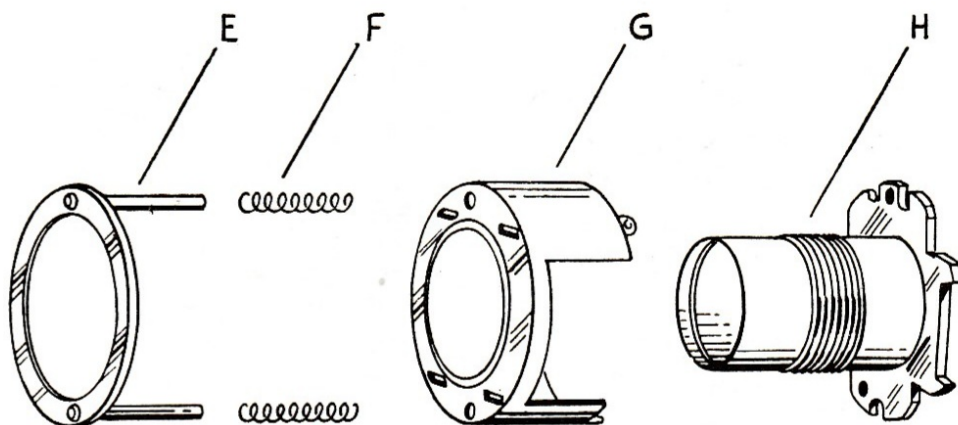
EXPLODED VIEW YALE 5400

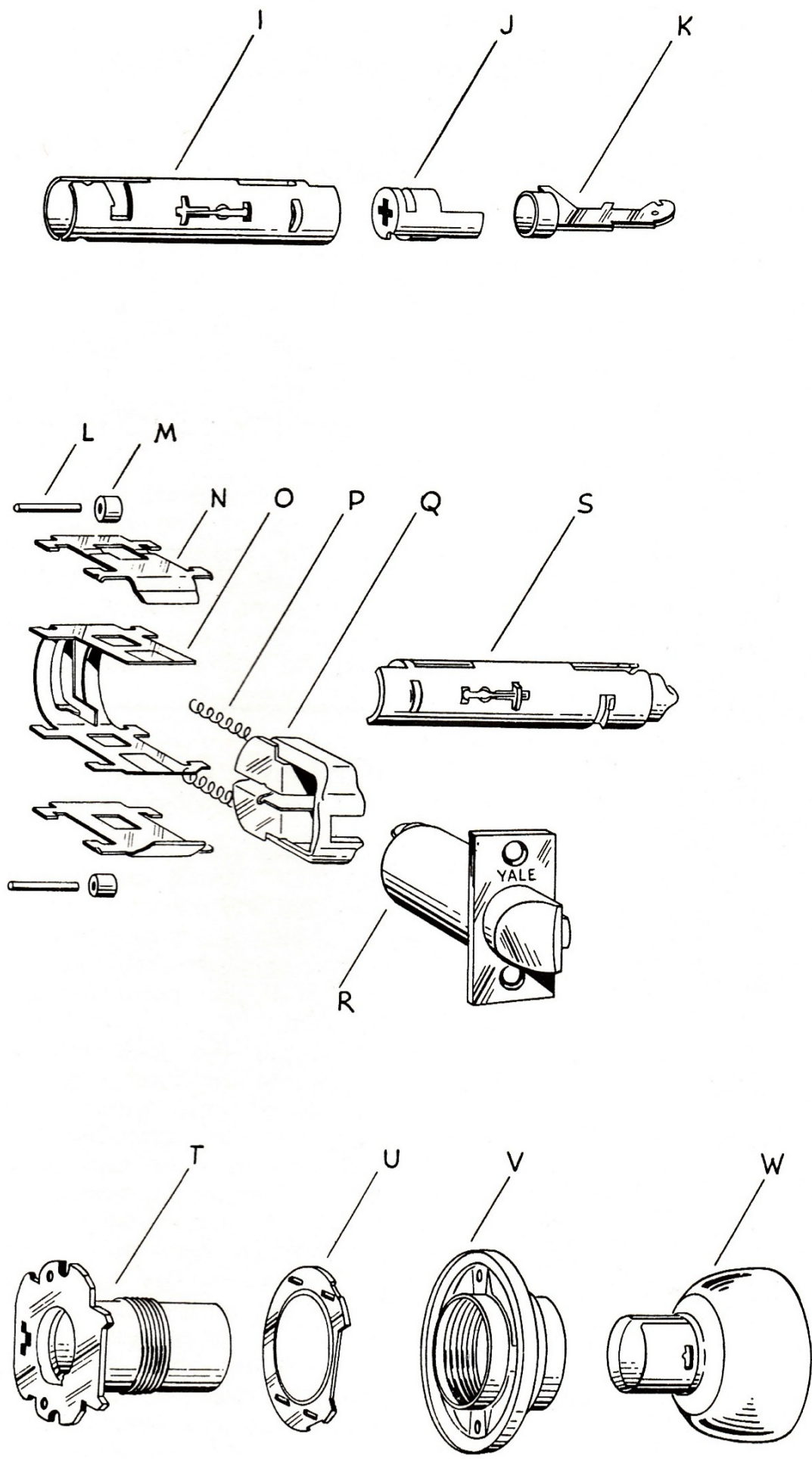
Manufactured by Yale & Towne Mfg. Co.

WHITE PLAINS, NEW YORK

- | | |
|---|--|
| <p>A. Outside Knob</p> <p>B. Pin Tumbler Cylinder</p> <p>C. Outside Knob Cap</p> <p>D. Outside Rose</p> <p>E. Adjustable Rose Indicator</p> <p>F. Indicator Spring</p> <p>G. Retractor Case Cover</p> <p>H. Outside Sleeve (Knob Bearing)</p> <p>I. Tube Spindle</p> <p>J. Release Tube Assembly</p> <p>K. Push Button Locking Arm</p> <p>L. Retractor Bearing Pin</p> | <p>M. Retractor Bearing</p> <p>N. Retractor Frame Plate</p> <p>O. Retractor Housing</p> <p>P. Retractor Spring</p> <p>Q. Retractor</p> <p>R. Latchbolt Assembly</p> <p>S. Push Button Spindle Assembly</p> <p>T. Inside Sleeve (Knob Bearing)</p> <p>U. Retractor Case Cover Plate</p> <p>V. Inside Rose</p> <p>W. Inside Knob</p> |
|---|--|

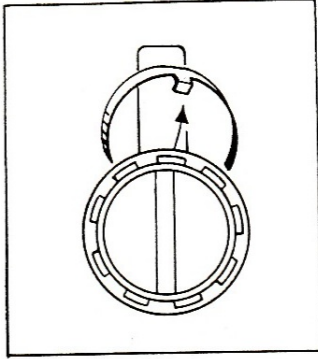
See Page 34 For Service Notes on Yale 5400



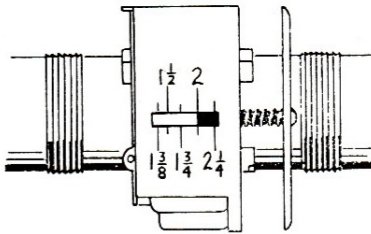


Service Notes on Yale 5400

To remove the plug from the cylinder, pry up and remove the horseshoe type spring clip at the tail end of the cylinder. Then, unscrew the castellated nut on the threaded tail of the cylinder.



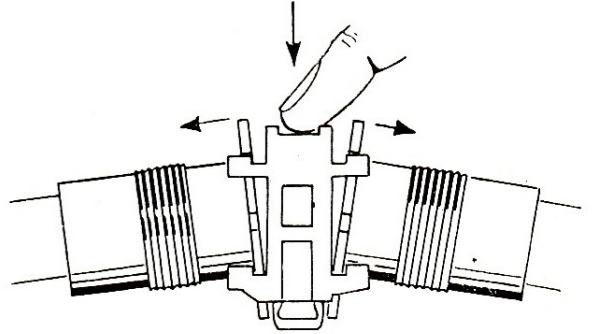
This lockset adjusts for door thicknesses ranging from $1\frac{3}{8}$ " to $2\frac{1}{4}$ ". Adjustment is made by rotating the *outside* rose until the rose indicator lines up with the desired thickness mark stamped next to the slot in the retractor case cover.



To change the hand of the lock, insert the key in the outside keyway and turn it clockwise 45° . Depress the outside knob retainer through the hole in the knob sleeve and remove the outside knob. Rotate the knob 180° ($\frac{1}{2}$ turn) from its original position and replace it on the lock, making sure that it is securely held by the retainer. (In order to replace the knob, the key must be turned 45°)

To separate the inside and out-

side knob sleeves from the retractor housing, push the top re-



tractor frame plate towards the latch end of the retractor to slide the locking lugs on the frame plate from under the locking lugs on the sleeves. The sleeves then can be separated from the retractor housing.

SCHLAGE D85PD

(continued from page 19)

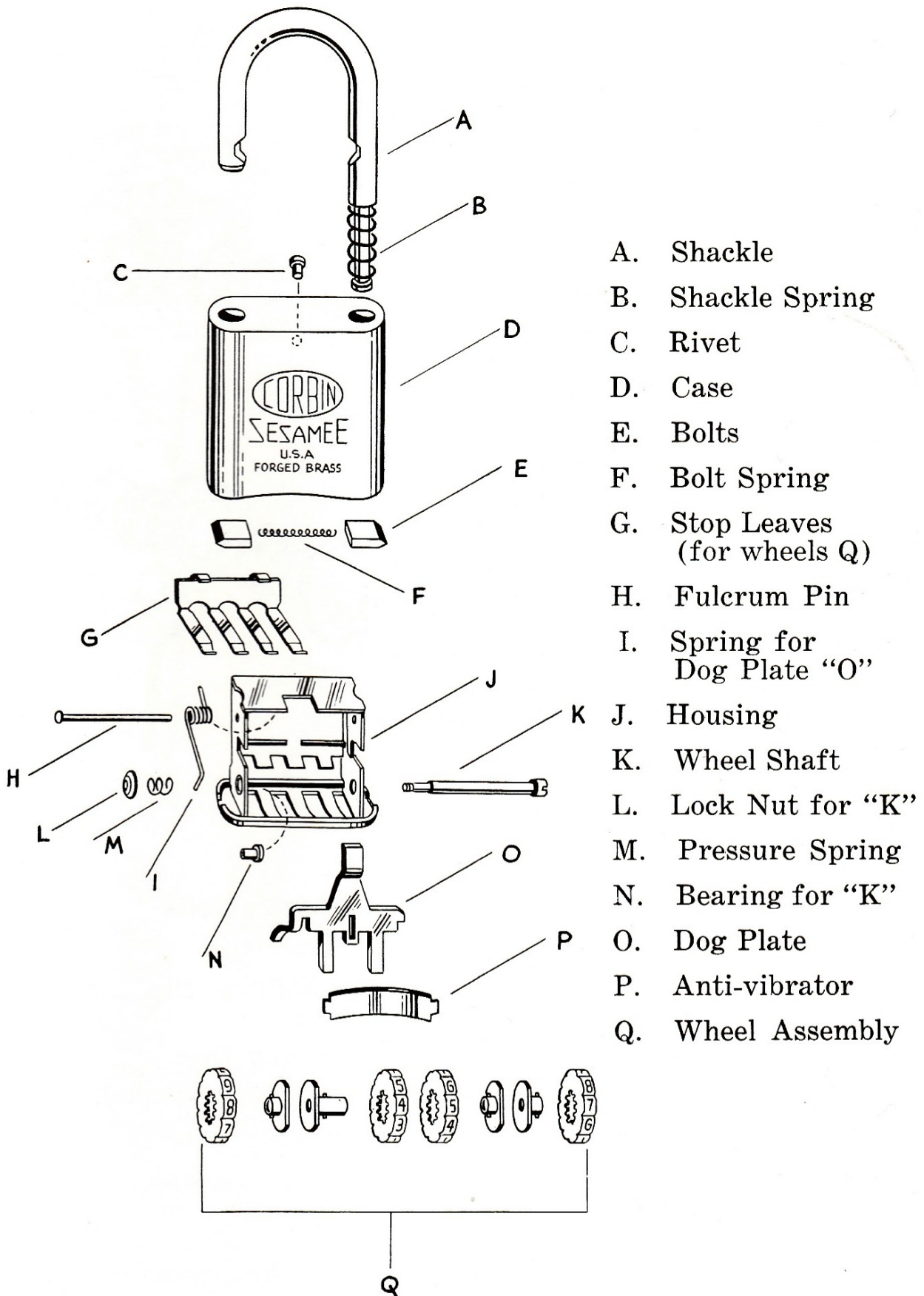
the lugs away from the groove into their normal unlocked position. This will retract the occupancy indicator and permit the regular or master key to open the lock and also permit automatic throw-off.

Opening the lock when the lock-out is engaged can be accomplished only with a special emergency key provided for this purpose. Since the bracket plate of the occupancy indicator blocks the rear of the keyway, preventing passage of the tip of the key, the emergency key consists of a master key with its tip ground off so that it does not touch the bracket plate. Thus, the emergency key enables the hotel manager to open the lock even though the lock-out feature is engaged.

EXPLODED VIEW

Corbin Sesamee Padlock (Improved)

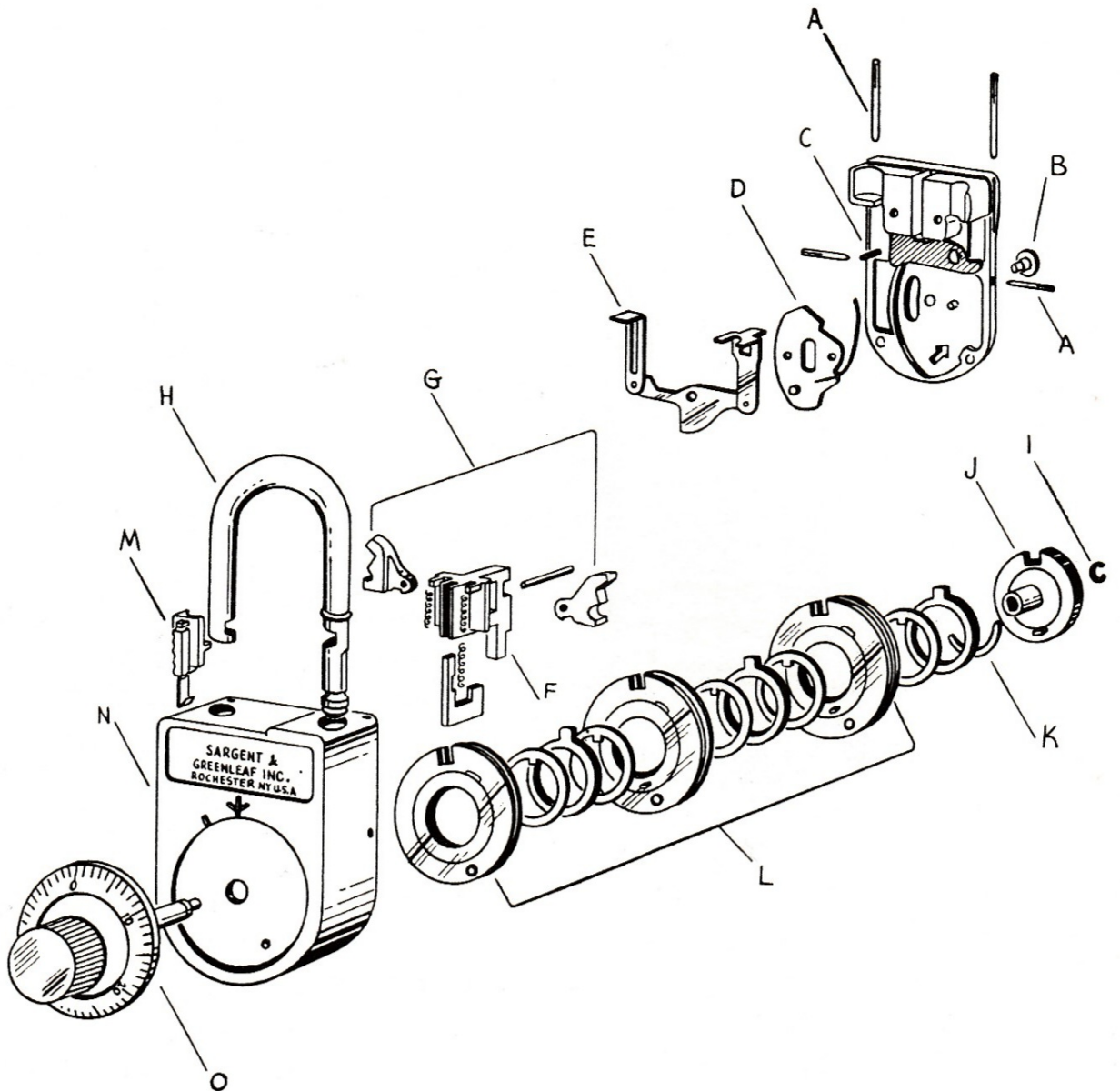
Manufactured by Corbin Cabinet Lock Division,
American Hardware Corp., New Britain, Conn.



EXPLODED VIEW

No. 8088 Combination Padlock

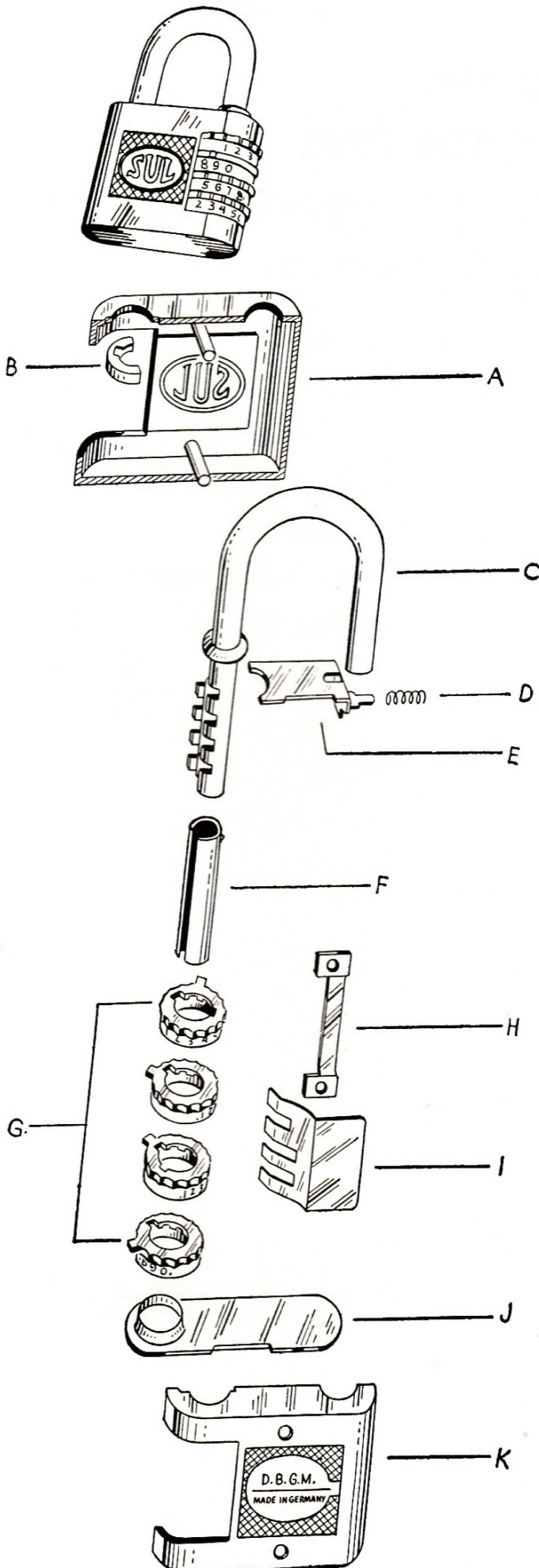
**Manufactured by Sargent & Greenleaf,
Rochester, N. Y.**



- | | |
|---|------------------------------------|
| A. Retaining Pins | G. Shackle Bolts |
| B. Key Slide Button (Moves slide to permit changing key to enter) | H. Shackle |
| C. Rear Case Plate | I. Retaining clip for driving disc |
| D. Keyway Guard (Will not move unless lock is open) | J. Driving Disc |
| E. Shackle Carrier (Controls keyway guard and scrambler Device M. Operates off heel side of shackle.) | K. Retaining Washer |
| F. Locking Dog for Discs and Carrier for Shackle Bolts. | L. Tumbler wheels |
| | M. Scrambler Device |
| | N. Case |
| | O. Dial and Spindle |

Exploded Lock View

SUL COMBINATION PADLOCK mfd. by O. B. G. M. Germany



- A—Rear Shell
- B—Shackle Retainer
- C—Shackle
- D—Locking Slide Spring
- E—Locking Slide
- F—Disc Bearing
- G—Combination Discs
- H—Spring Rest
- I—Disc Friction Spring
- J—Bearing Support
- K—Front Shell

The combination to this padlock may be found by exerting pulling pressure on the shackle and revolving each disc separately to the number where the "rub" is least intense.

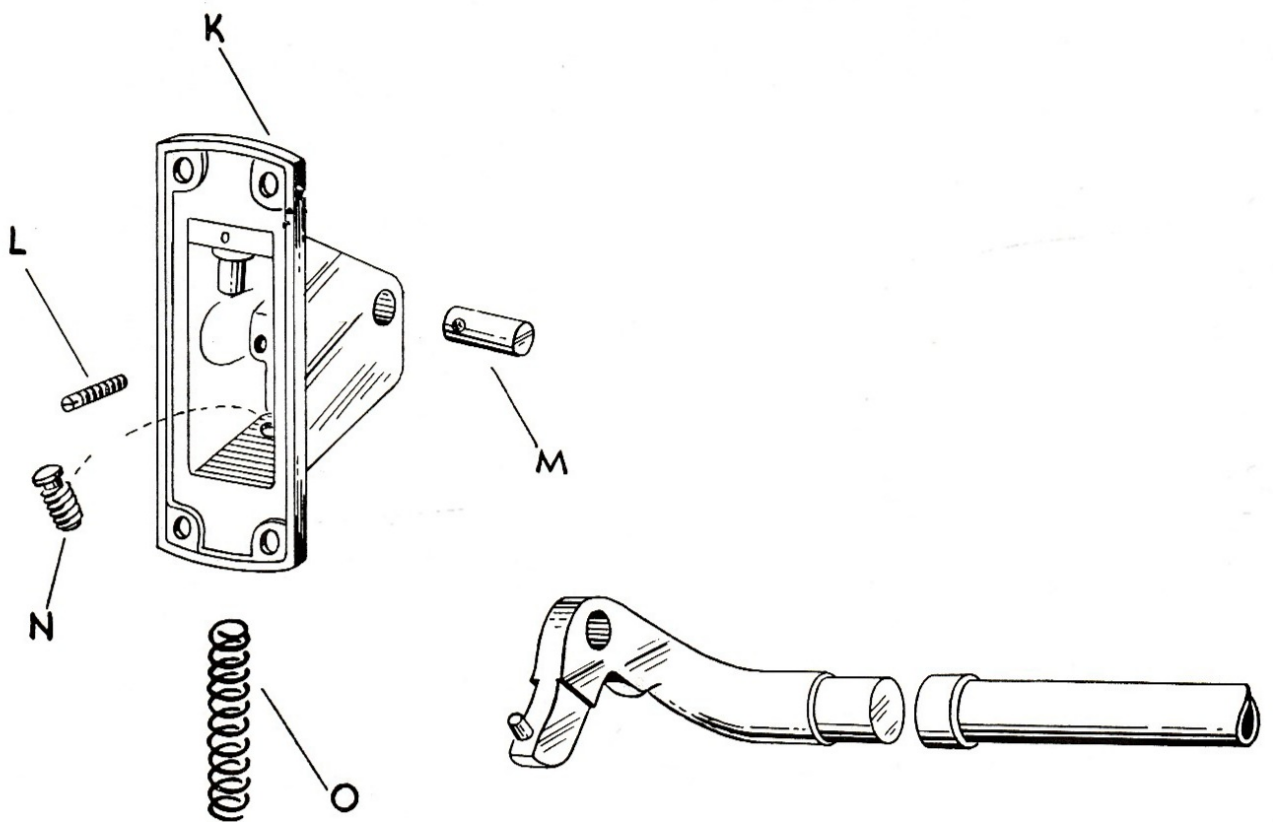
PANIC BOLT ASSEMBLY CHARTS

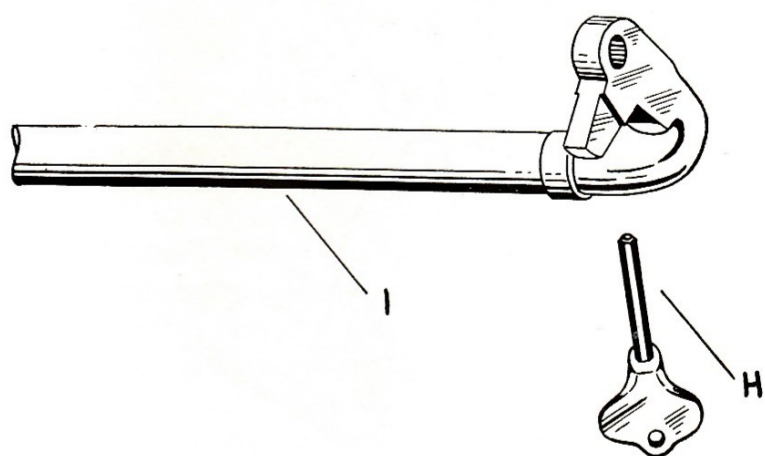
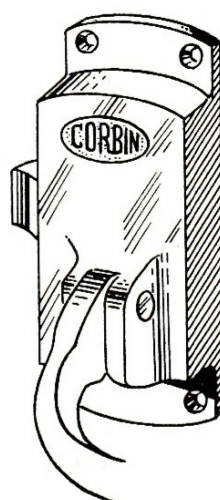
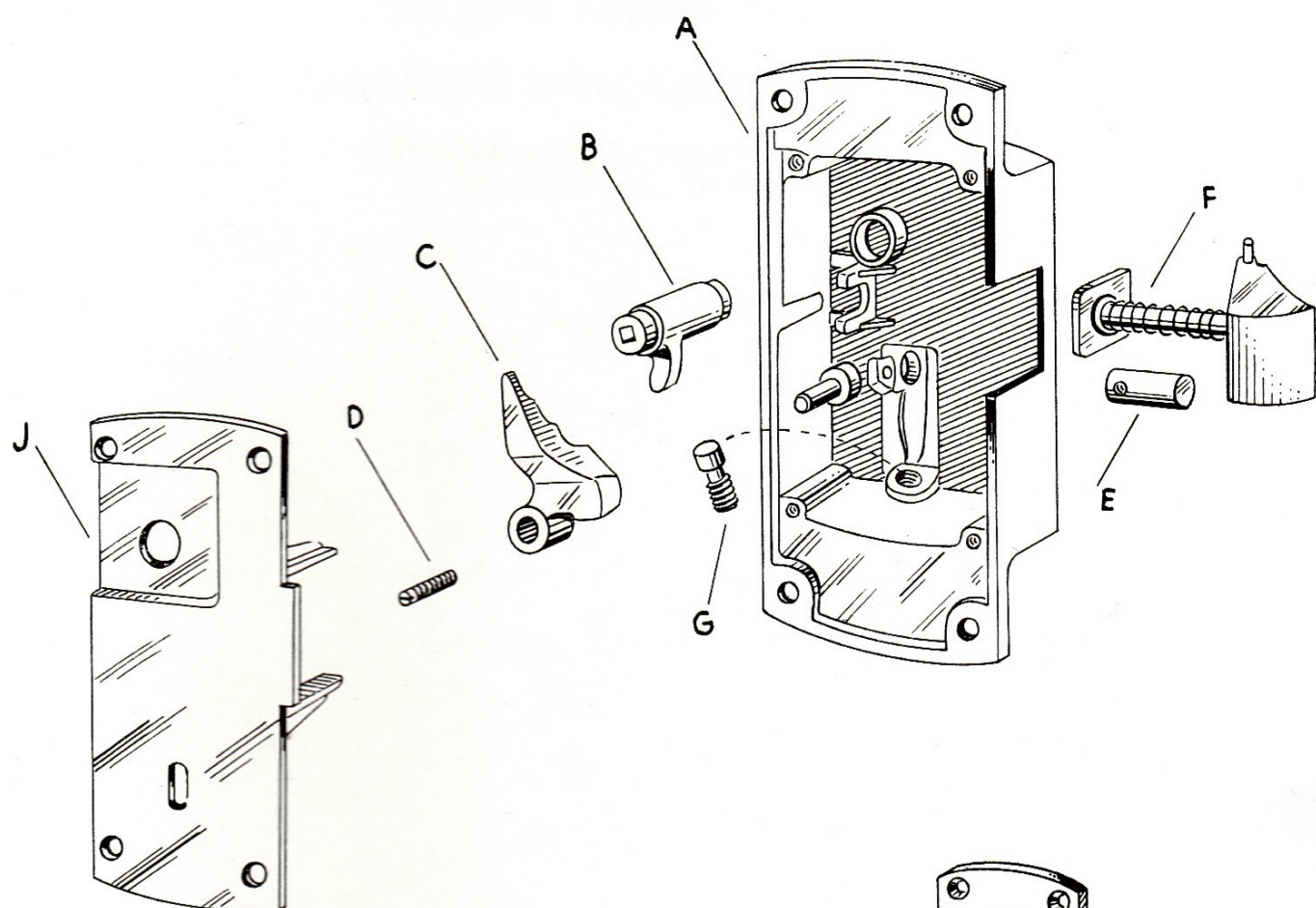
CORBIN

Model No. 1DB 2885

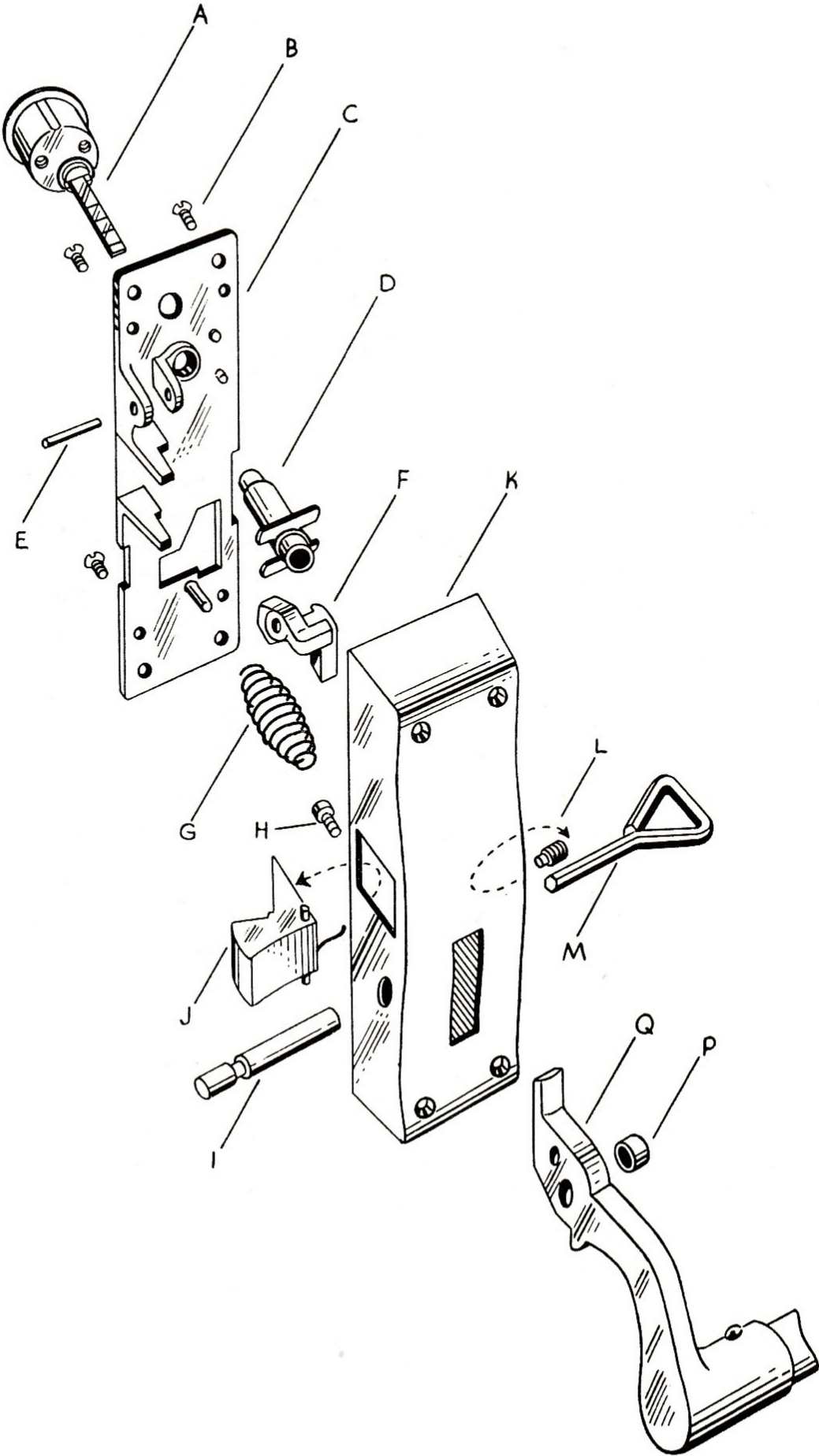
Manufactured by P. & F. Corbin Division
New Britain, Connecticut

- | | |
|-------------------------------|--------------------------------|
| A - Case | I - Cross Bar |
| B - Cylinder Hub | J - Case Back Plate |
| C - Latch Lever Arm | K - Support Case |
| D - Cross Bar Retaining Screw | L - Cross Bar Retaining Screw |
| E - Cross Bar Pin | M - Cross Bar Pin |
| F - Latch Bolt | N - Support Case Dogging Screw |
| G - Dogging Screw | O - Cross Bar Spring |
| H - Dogging Key | |





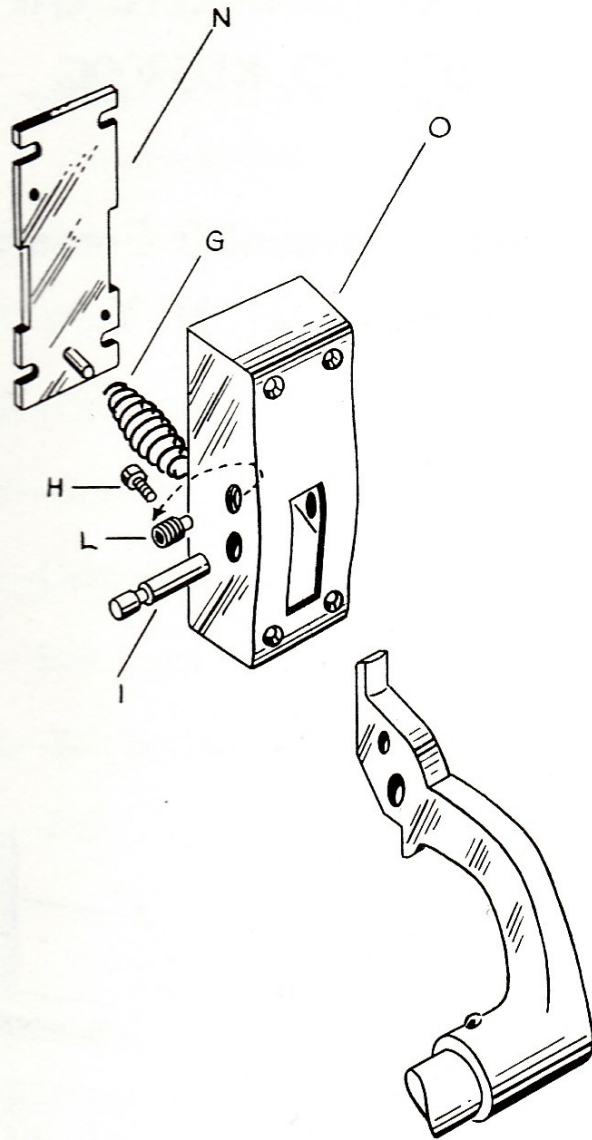
PANIC LOCK ASSEMBLY CHARTS



Sargent Model No. 5800

Standard Rim Type Exit Device

Manufactured by Sargent & Company
New Haven, Connecticut

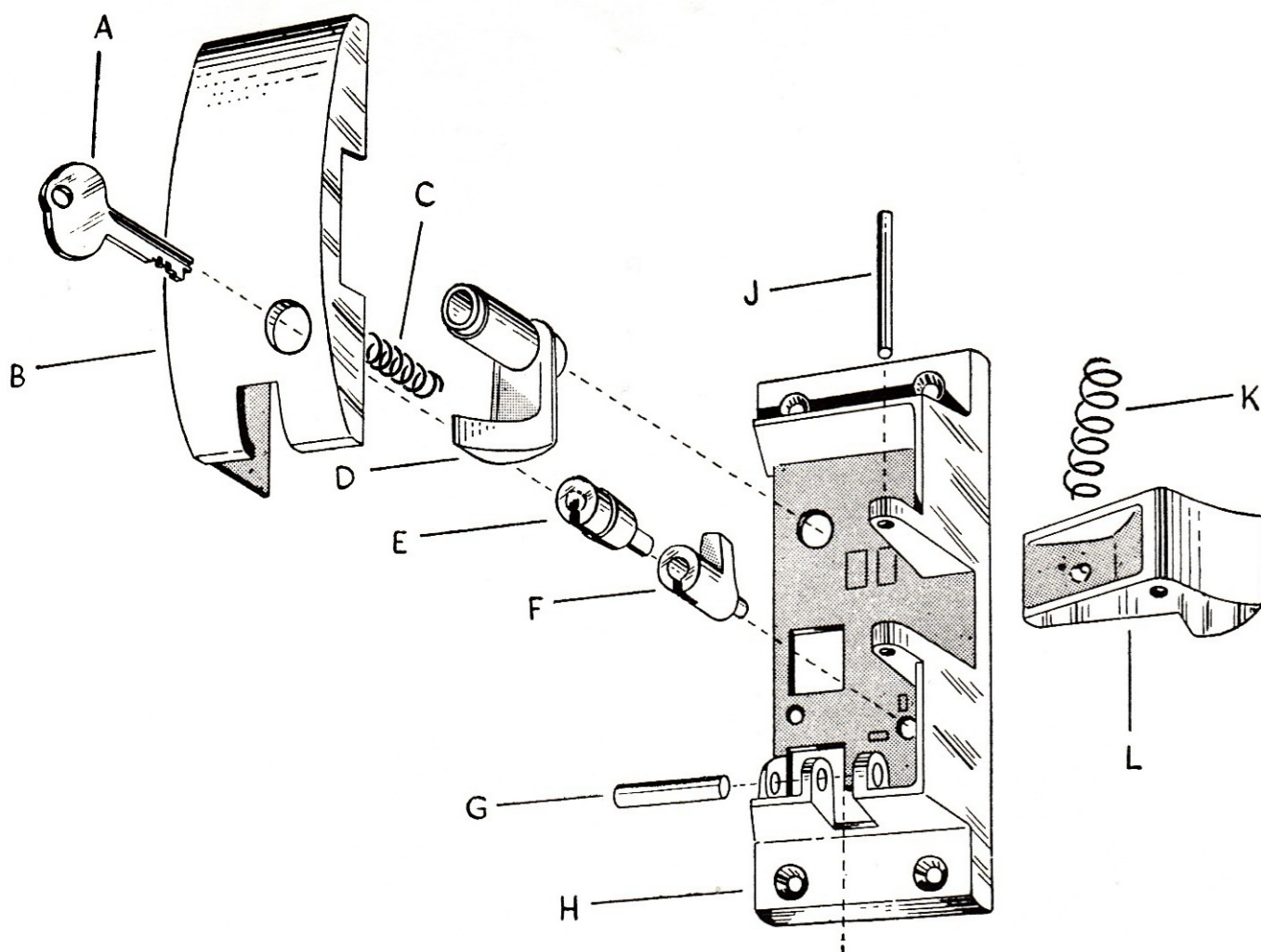


- | | |
|----------------------------------|---------------------------|
| A. Cylinder | I. Cross Bar Pins |
| B. Case Cover Screws | J. Latchbolt |
| C. Case Cover | K. Case |
| D. Cylinder Hub | L. Dogging Screw |
| E. Latch Lever Arm Pin | M. Dogging Key |
| F. Latch Lever Arm | N. Support Case Cover |
| G. Springs | O. Support Case |
| H. Cross Bar Pin Retaining Screw | P. Cross Bar Spacing Ring |
| | Q. Cross Bar |

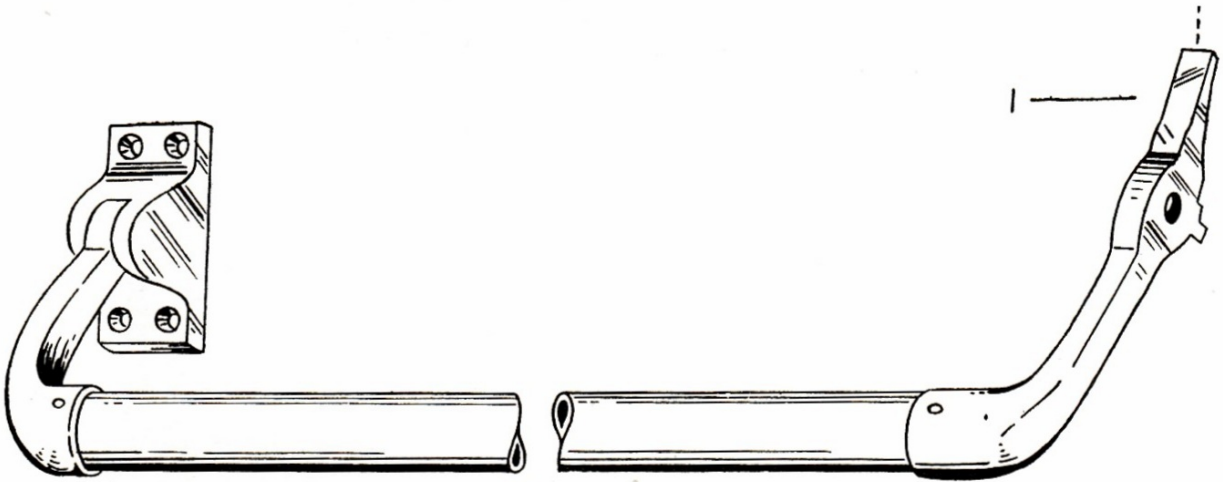
PANIC LOCK ASSEMBLY CHARTS

SARGENT & GREENLEAF MODEL NO. KD5300C

Manufactured by Sargent & Greenleaf, Inc.
Rochester 21, N. Y.



- A—Dogging Key
- B—Cover
- C—Operating Handle Spring
- D—Cylinder Cam (for tailpiece of
outside cylinder)
- E—Dogging Keyway
- F—Dog
- G—Operating Handle Pivot Pin
- H—Case
- I—Operating Handle Assembly
- J—Bolt Pivot Pin
- K—Bolt Spring
- L—Bolt

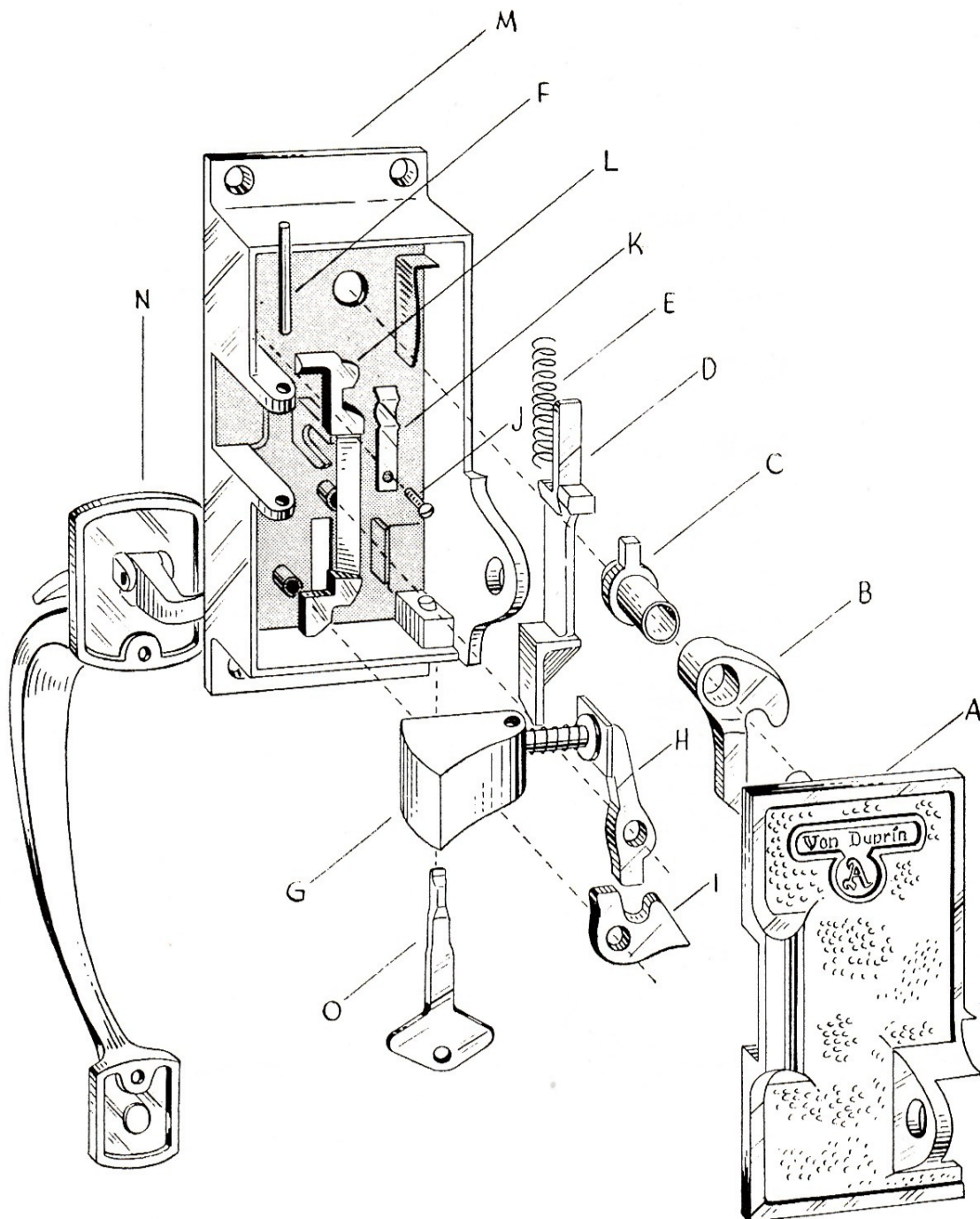


PANIC LOCK ASSEMBLY CHARTS

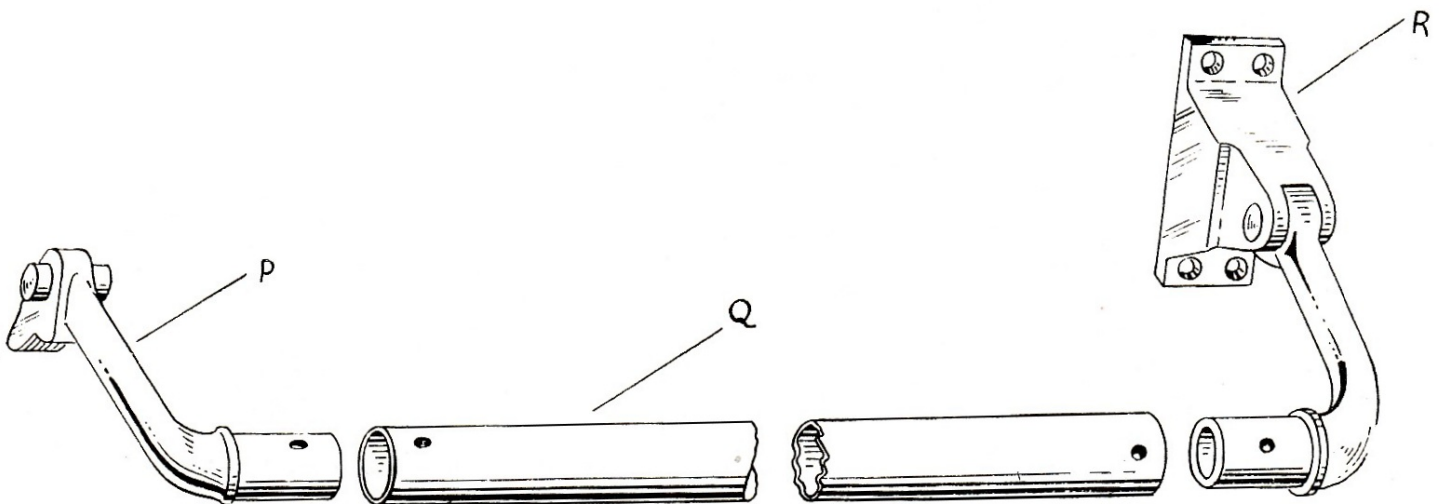
VON DUPRIN

No. 1056A

Mfg. by Von Duprin Division, Vonnegut Hardware Co.,
Indianapolis, Ind.



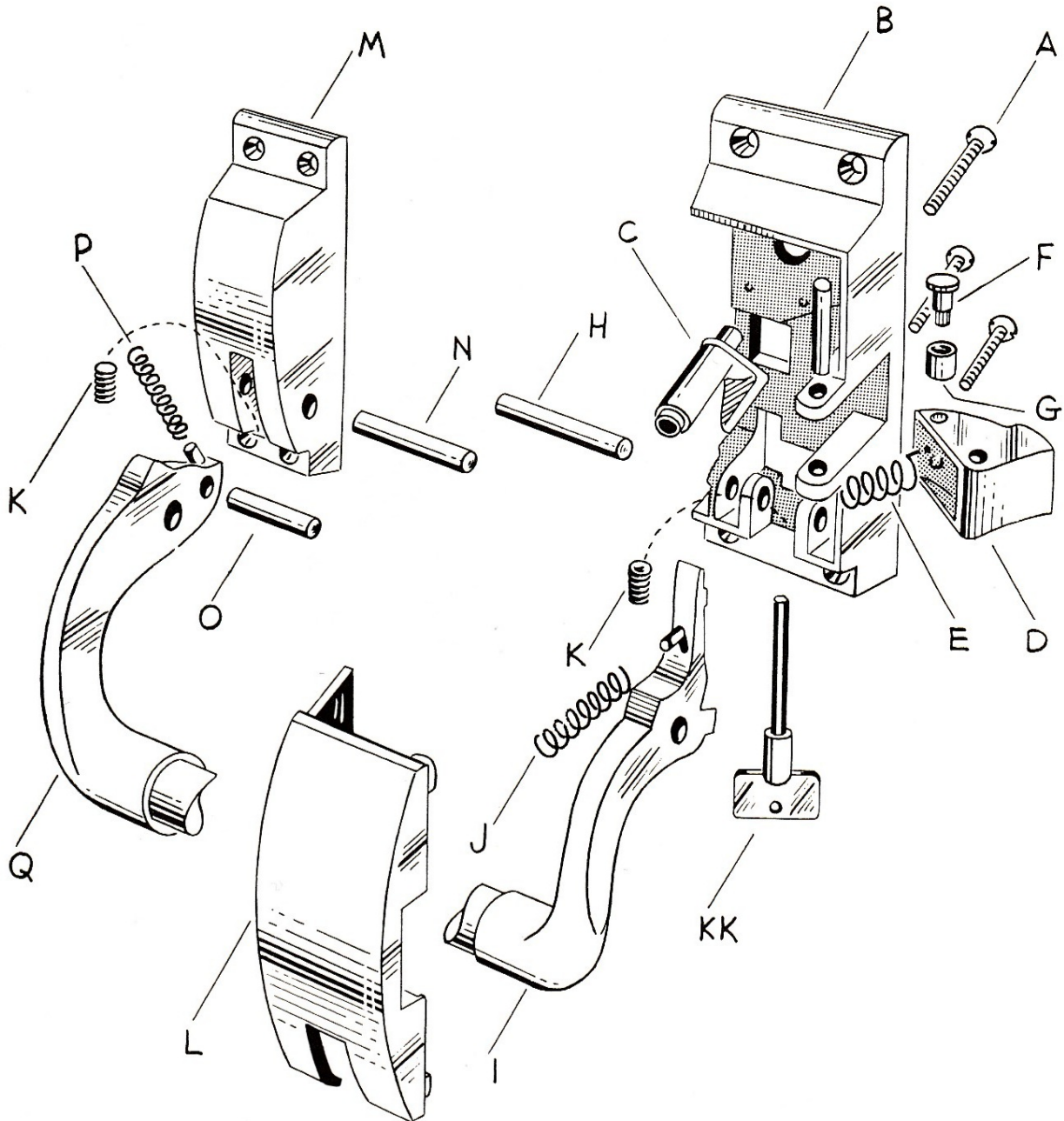
- A—Case Cover
- B—Latch Lever Arm
- C—Cylinder Hub
- D—Lever Arm Pusher
- E—Lever Arm Pusher Spring
- F—Latch Pin
- G—Latch Bolt
- H—Latch Lever
- I—Thumb Piece Lever
- J—Screw
- K—Locking Lever Positioning Spring
- L—Thumb piece Locking Lever
- M—Case
- N—Thumb Latch Handle Assembly
- O—Dogging Key
- P—Case Lever
- Q—Cross Bar
- R—Support Case



PANIC BOLT ASSEMBLY CHARTS

Sargent and Greenleaf Model No. KD5311

**Manufactured by Sargent & Greenleaf, Inc.,
Rochester 21, N. Y.**



- | | |
|-----------------------|-------------------------------|
| A. Case Screws | J. Cross Bar Spring |
| B. Case | K. Dogging Screw |
| C. Cylinder Hub | KK. Dogging Key |
| D. Latch Bolt | L. Case Cover |
| E. Latch Bolt Spring | M. Support Case |
| F. Roller Cam Pin | N. Support Case Cross Bar Pin |
| G. Roller Cam | O. Travel Stop Pin |
| H. Case Cross Bar Pin | P. Cross Bar Spring |
| I. Cross Bar | Q. Cross Bar |

KEY IN THE KNOB

IDENTIFICATION BY TRADE NAME

Salesmen and hardware men are becoming accustomed to referring to certain key in the knob locks by name instead of numbers . The following list will help you quickly identify the product they may be talking about.

<u>Trade Name</u>	<u>Manufacturer</u>
A L I G N A L O C K	Sargent & Co.
C H A L L E N G E R	Challenger Lock Co. (formerly Hollymade)
D E F E N D E R	Corbin
D E X L O C K	Dexter Lock Division Dexter Industries, Inc.
E - Z - S E T	National Hardware Corp.
G U A R D I A N	Corbin
H A M P T O N	Harloc
H O M E G U A R D	Russwin
H O M E D U T Y	Yale
I N T E G R A L O C K	Sargent & Co.
O L Y M P I C - R O Y A L	Vimcar (out of business)
P A C E M A K E R	Harloc
P R E S I D E N T	Vimcar (out of business)
R E D D I - M O U N T	J. Chesler & Sons (out of bus.)
R O Y A L	Vimcar (out of business)
S . A . F . E	Distributed as TACO Lock- set by Trans-Atlantic Co.
S E N T R Y	Sargent & Co.
S T I L E M A K E R	Russwin
S T I L E M A N O R	Russwin
S H U R L O C	Metallon Products (formerly Technical Glass)
W E S L O C K	Western Lock Mfg. Co.

Note: The above names are styles of locks and are not to be confused with designs which are also named by the various manufacturers.

INDEX

LOCKSETS:

Arrow 150	24
Dexter 3231	2
E-Z-Set 500	4
Lockwood RS-130	6
Lockwood "S" Series	8
Reddi-Mount 500	10
Russwin U240	12
Sargent Sentry Lock	14
Schlage D85PD	16
Shurlok 735	20
S. A. F. E. (Taco)	22
Weiser 500 (Improved)	26
Weslock 830	28
Weslock 930	30
Yale 5400	32

PADLOCKS:

Corbin Sesamee (Improved)	35
Sargent & Greenleaf 8088	36
Sul (Foreign)	37

PANIC EXIT DEVICES:

Corbin No. 1 DB 2885	38
Sargent No. 5800	40
Sargent & Greenleaf No. KD5300C	42
Sargent & Greenleaf No. KD5311	46
Von Duprin No. 1056A	44

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